

Date: September 1, 2010

Reg. No.: 81927-24

Product Name: Alligare Imazapyr 4 SL

PM Name/Number: Jim Tompkins, PM 25

Primary Reviewer: Judy Loranger

Secondary Reviewer: Mark Perry

Judy Loranger 9/8/10
MJP

New label or date of RD amended label: No pin-punch date on label, but label states "EPA 20081020"

Formulation Type: Liquid

Active Ingredient Assessed: Isopropylamine salt of Imazapyr/128829

Other ai's in product

Name/PC code:

N/A

Reregistration Status or Registration Date:

N/A

Note to PM:

1) The Risk Management and Implementation Branch V (RMIB V) notes that the label for this product does not include resistance management labeling as described in PR Notice 2001-5. The Agency encourages registrants to add the resistance management grouping symbols and statements to product labels in view of the importance of resistance management to a long-term pest management strategy.

Assessment can be found N:\prb\label\081927\024

1) Based on toxicity ranking per the acute toxicity review, the First Aid statements should be placed on the label in the following order:

"IF SWALLOWED:...

IF ON SKIN OR CLOTHING:...

IF IN EYES:...

IF INHALED:..."

2) Per the acute toxicity review, the Hazards to Humans and Domestic Animals must be revised to read:

"CAUTION

Harmful if swallowed. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing."

3) Per the acute toxicity review and the RED, the following revisions are needed to the handler PPE section:

-The first sentence of this section should be revised to read "Some materials that are chemical-resistant to this product are made of any waterproof material."

-The glove statement must be revised to read "Chemical-resistant gloves (except for pilots)."

4) Per the RED label table, the text in **bold type** below must be added to the following User Safety Requirements:

"...If no such instructions for washables **exist**, use detergent and hot water..."

5) The spray drift text appearing on the label must be revised to read as specified below (and required in the Imazapyr RED):

"Aerial Applications:

Applicators are required to use a Coarse or coarser droplet size (ASABE S572) or, if specifically using a spinning atomizer nozzle, applicators are required to use a volume mean diameter (VMD) of 385 microns or greater for release heights below 10 feet; Applicators are required to use a Very Coarse or coarser droplet size or, if specifically using a spinning atomizer nozzle, applicators are required to use a VMD of 475 microns or greater for release heights above 10 feet; Applicators must consider the effects of nozzle orientation and flight speed when determining droplet size.

Applicators are required to use upwind swath displacement.

The boom length must not exceed 60% of the wingspan or 90% of the rotor blade diameter to reduce spray drift.

Applications with wind speeds less than 3 mph and with wind speeds greater than 10 mph are prohibited.

Applications into temperature inversions are prohibited.

Ground Boom Applications:

Applicators are required to use a nozzle height below 4 feet above the ground or plant canopy and Coarse or coarser droplet size (ASABE S572) or, if specifically using a spinning atomizer nozzle, applicators are required to use a volume mean diameter (VMD) of 385 microns or greater.

Applications with wind speeds greater than 10 mph are prohibited.

Applications into temperature inversions are prohibited."

DATA PACKAGE BEAN SHEET

Date: 10-Sep-2010

Page 1 of 1

Decision #: 390809

DP #: (382024)

NON PRIA

Parent DP #:

Submission #: 839741

*** Registration Information ***

Registration: 81927-24 - ALLIGARE IMAZAPYR 4 SL

Company: 81927 - ALLIGARE, LLC

Risk Manager: RM 25 - James Tompkins - (703) 305-5697 Room# PY1 S-7337

Risk Manager Reviewer: Wilhelmena Livingston WLIVINGS

Sent Date: 10-Nov-2008

Calculated Due Date: 06-Nov-2008

Edited Due Date: _____

Type of Registration: Product Registration - Section 3

Action Desc: (676) Product Reregistration Decision;

Ingredients: 128829, 2-(4,5-Dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl)-3-pyridinecarboxylic

*** Data Package Information ***

Expedite: ☐ Yes ☒ No

Date Sent: 10-Sep-2010

Due Back: _____

DP Ingredient: 128829, 2-(4,5-Dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl)-3-pyridinecarboxylic

DP Title: Imazapyr 81927-24 for RD Final Review.

CSF Included: ☒ Yes ☐ No

Label Included: ☒ Yes ☐ No

Parent DP #: _____

Assigned To

Date In

Date Out

Organization: RD / HB

Last Possible Science Due Date: _____

Team Name: RM 25

Science Due Date: _____

Reviewer Name: _____

Sub Data Package Due Date: _____

Contractor Name: _____

*** Studies Sent for Review ***

No Studies

*** Additional Data Package for this Decision ***

Can be printed on its own page

*** Data Package Instructions ***

Jim Tompkins,
Please accept imazapyr 81927-24 for RD Final Review.

Thanks
Wilhelmena

*Sent email
to Tarell*



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

July 28, 2010

MEMORANDUM:

Subject: EPA Reg. No.: 81927-24 Alligare Imazapyr 4 SL
DP Barcode: 379756
Case No.: 3078

From: Jolene Trujillo, Biologist *Jolene Trujillo*
Risk Management and Implementation Branch V (7508P)
Pesticide Re-evaluation Division *MJP*

To: Wilhelmena Livingston, CRM
Risk Management and Implementation Branch V (7508P)
Pesticide Re-evaluation Division

Applicant: Alligare LLC
13 N. 8th Street
Opelika, AL 36801

FORMULATION FROM EPA Reg. No. 81927-24 LABEL:

	<u>% by wt.</u>
<u>Active Ingredient(s):</u>	
Isopropylamine sale of Imazapyr (2-[4,5-dihydro-4-methyl-4-(1methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid).....	52.6%
<u>Other Ingredient(s):</u>	<u>47.4%</u>
Total	100.0%

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Have product container or label with you when calling a poison control center or doctor or going to treatment. You may also contact 1-800-xxx-xxxx for emergency medical treatment information.

USER SAFETY RECOMMENDATIONS:

User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

DATE OUT: 26/JULY/2010

SUBJECT: PRODUCT CHEMISTRY REVIEW OF: TGAI []; MUP []; EUP [X]

BARCODE NO.: D379754

REG./FILE SYMBOL NO.: 81927-24

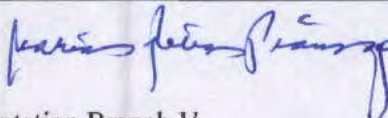
PRODUCT NAME: Alligare Imazapyr 4 SL

MRID NOS.: [REDACTED]

COMPANY NAME: Alligare, LLC

ACTION CODE: 676

FROM: Maria Rivera Piansay, Chemist
Product Chemistry Team
Risk Management and Implementation Branch V
Pesticide Re-evaluation Division (7508P)



TO: Wilhelmena Livingston, CRM
Risk Management and Implementation Branch III
Pesticide Re-evaluation Division (7508P)

INTRODUCTION:

A Reregistration Eligibility Decision (RED), Case number 3078, was issued in June, 2006 for the Active Ingredient (AI), Imazapyr (acid or salt):2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid. According to the RED, the generic data base supporting the reregistration of Imazapyr have been reviewed and found to be substantially complete.

In the 8-month response to the Imazapyr RED, the registrant provided a Confidential Statement of Formula (CSF) for the basic formulation, dated 10/28/08; a draft label (no EPA received date); and is citing product chemistry data from EPA Reg. No. [REDACTED] to support the reregistration of their product, EPA Reg. No. 81927-24.

FINDINGS:

1. EPA Reg. No. 81927-24 is an end-use herbicide that contains the active ingredient Imazapyr, isopropylamine salt at a label claim nominal concentration of 52.6%.
2. The CSF for the basic formulation (dated 10/28/10) has been filled correctly and completely and contains information that is acceptable for reregistration of the subject product.
3. Review of CSF, labels (EPA Reg. No. 81927-24 vs. [REDACTED]), and other available information indicates that the citation is acceptable. The subject product may cite all product chemistry data [REDACTED] conducted with Reg. No. [REDACTED] to support its product chemistry. The data were reviewed and accepted by PRD/RMIB V on [REDACTED]. All product chemistry data pertaining to the Group A and Group B requirements (Product Identity, Composition and Analysis and Physical and Chemical Properties, respectively) are satisfied.

4. The Ingredients Statement on the draft label is acceptable as per 40 CFR §156.10(g) and PR Notices 91-2 and 97-6. There are no data present to trigger the need for a Physical or Chemical Hazards statement on the draft label. The Storage and Disposal Statements are acceptable in accordance with 40 CFR §156.10(i)(2)(ix) and PR Notice 83-3.

CONCLUSIONS:

The registrant has satisfied the PBO product chemistry requirements for the reregistration of EPA Reg. No. 81927-24.

United States Environmental Protection
Agency Washington, D.C. 20460
DATA CALL-IN RESPONSE

OMB Approval 2070-0107
OMB Approval 2070-0057

INSTRUCTIONS: Please type or print in ink. Please read carefully the attached instructions and supply the information requested on this form.
Use additional sheet(s) if necessary.

1. Company Name and Address ALLIGARE, LLC 4110 136TH ST., NW GIG HARBOR, WA 98332		2. Case # and Name 3021 Arsenal (*) Chemical # and Name 128829 2-(4,5-Dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazole-2-ylidene)-N,N-dimethyl-2-oxo-1,2,3,4-tetrahydro-1,2,3,4-tetrahydropyrimidin-5-amine (1:1)		3. Date and Type of DCI and Number 12-Mar-2008 PRODUCT SPECIFIC ID # PDCI-128829-26853	
4. EPA Product Registration	5. I wish to cancel this product registration voluntarily	6. Generic Data		7. Product Specific Data	
		6a. I am claiming a Generic Data Exemption because I obtain the active ingredient from the source EPA registration number listed below.	6b. I agree to satisfy Generic Data requirements as indicated on the attached form entitled "Requirements Status and Registrant's Response."	7a. My product is an MUP and I agree to satisfy the MUP requirements on the attached form entitled "Requirements Status and Registrant's Response."	7b. My product is an EUP and I agree to satisfy the EUP requirements on the attached form entitled "Requirements Status and Registrant's Response."
81927-22		N.A.	N.A.		YES
81927-23		N.A.	N.A.		YES
81927-24		N.A.	N.A.		YES
81927-6		N.A.	N.A.		YES
8. Certification I certify that the statements made on this form and all attachments are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine, imprisonment or both under applicable law.				9. Date 6/17/08	
Signature and Title of Company's Authorized Representative <u>DMH Agent</u>				11. Phone Number 253-553-7369	
10. Name of Company <u>Alligare LLC</u>					



United States
Environmental Protection Agency
Washington, DC 20460

☐ Registration
☐ Amendment
☒ Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 81927-24	2. EPA Product Manager J. Stokes	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Alligare LLC/Imazapyr 4 SL	PM# SRRD	
5. Name and Address of Applicant (Include ZIP Code) Alligare LLC c/o Pyxis Regulatory Consulting, Inc. 4110 136th St. NW Gig Harbor, WA 98332 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input checked="" type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Arsenal (Case No. 3021; Chemical No. 128829); Imazapyr Product Specific Data Call-In; Submission of 8-Month Response

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____		
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Janelle Kay	Title Agent	Telephone No. (Include Area Code) (253) 853-7369	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)
2. Signature 		3. Title Agent	
4. Typed Name Janelle Kay		5. Date 11/4/08	



United States
Environmental Protection Agency
Washington, DC 20460
Formulator's Exemption Statement
(40 CFR 152.85)

Applicant's Name and Address Alligare, LLC 13 N. 8th Street Opelika, AL 36801	EPA File Symbol/Registration Number 81927-24
	Product Name Alligare Imazapyr 4 SL
	Date of Confidential Statement of Formula (EPA Form 8570-4) 10/28/2008

As an authorized representative of the applicant for registration of the product identified above, I certify that:

(1) This product contains the following active ingredient(s):

Imazapyr, isopropylamine salt

(2) Of these, each active ingredient listed in paragraph (4) is present solely as the result of the use of that active ingredient in the manufacturing, formulation or repackaging another product which contains that active ingredient which is registered under FIFRA Section 3, is purchased by us from another person and meets the requirements of 40 CFR section 158.50(e)(2) or (3).

(3) Indicate by checking (A) or (B) below which paragraph applies:

☒ (A) An accurate Confidential Statement of Formula (EPA FORM 8570-4) for the above identified product is attached to this statement.

That formula statement indicates, by company name, registration number, and product name, the source of the active ingredient(s) listed in paragraph (1).

OR

☐ (B) The Confidential Statement of Formula (CSF)(EPA Form 8570-4) referenced above and on file with the EPA is complete, current, an accurate and contains the information required on the current CSF.

(4) The following active ingredients in this product qualify for the formulator's exemption.

Product ingredient source information may be entitled to confidential treatment

Source		
Active Ingredient	Product Name	Registration Number
imazapyr, isopropylamine salt	[REDACTED]	[REDACTED]
Signature 	Name and Title Janelle Kay, Agent	Date 10/28/08

PYXIS REGULATORY CONSULTING, INC.

4110 136th St. NW
Gig Harbor, WA 98332

Phone: 253-853-7369
Fax: 253-853-5516
www.PyxisRC.com

November 4, 2008

COURIER DELIVERY

Julia Stokes
Product Reregistration Branch
Special Review and Reregistration Branch (7508P)
Office of Pesticide Programs
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

RE: Arsenal (*) (Case No. 3021; Chemical No. 128829)
Submission of Alligare LLC's 8-Month Response to the Imazapyr Product Specific Data Call-In
Imazapyr 4 SL (EPA Reg. No. 81927-24)

Dear Ms. Stokes,

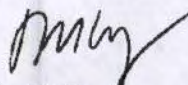
On behalf of Alligare, LLC (Company No. 81927) please find the enclosed 8-month response for the Arsenal (Case No. 3021; Chemical No. 128829) Product Specific Data Call-In for Imazapyr 4 SL (EPA Reg. No. 81927-24). In support of this submission, please find the following documents:

1. Application for Reregistration (EPA Form 8570-1)
2. Two copies (2) of the Basic Confidential Statement of Formula dated October 24, 2008
3. Two copies (2) of the Alternate Formulation #1 Confidential Statement of Formula dated October 24, 2008
4. Formulator's Exemption (EPA Form 8570-27)
5. Five (5) copies of proposed labeling incorporating changes required by the Imazapyr RED
6. A CD containing an electronic version of the label

Please note that this product is a 100% repack of a currently registered product and the Agency Internal Use Data Matrix, Public file copy of the Data Matrix, and the Certification with Respect to Citation of Data are not required and are not enclosed.

Please feel free to contact me (Janelle@PyxisRC.com; (253) 853-7369) if you have any questions or need any additional information.

Sincerely,


Janelle Kay

Enclosures

6/26/08 mp ✓
PYXIS REGULATORY CONSULTING, INC.

4110 136th St. NW
Gig Harbor, WA 98332

Phone: 253-853-7369
Fax: 253-853-5516
www.PyxisRC.com

June 17, 2008

COURIER DELIVERY

Julia Stokes, Chemical Review Manager
Document Processing Desk (DCI/SRRD)
Special Review and Reregistration Branch (7508P)
Office of Pesticide Programs
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

RE: Arsenal (*) (Case No. 3021; Chemical No. 128829)
Submission of Alligare LLC's 90-day Response to the Imazapyr Product Specific Data Call-In
(ID No. PDCI-128829-26853)
Alligare Rotary 2 SL (EPA Reg. No. 81927-6)
Alligare Ecomazapyr 2 SL (EPA Reg. No. 81927-22)
Alligare Imazapyr 2 SL (EPA Reg. No. 81927-23)
Alligare Imazapyr 4 SL (EPA Reg. No. 81927-24)

Dear Ms. Stokes,

On behalf of Alligare LLC, please find the enclosed 90-day response to the Imazapyr Product Specific Data Call-In. In support of this submission, we enclose the Completed Data Call-In Response Form.

Please note that as per the product specific Data Call-In instructions, if the product(s) is a 100% repack of a currently registered product(s), the Requirements Status and Registrant's Response form does not need to be completed and submitted. Alligare LLC's products (EPA Reg. Nos. 81927-6, 81927-22, 81927-23, 81927-24) are 100% repacks of currently registered products; therefore, the Requirements Status and Registrant's Response forms are not enclosed.

Please feel free to contact me if you have any questions or need any additional information.

Sincerely,


Janelle Kay

Enclosures

rcb
JUN 26 2008
PRB



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Michael Kellog
Agent for Alligare, LLC
Pyris Regulatory Consulting, Inc.
4110 136th St. N.W.
Gig Harbor, WA 98332

JAN 12 2009

Subject: Label Notification(s) for Pesticide Registration Notice 2007-4

Dear Mr. Kellog:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated October 20, 2008 for:

EPA Registration 81927-24

Alligare Imazapyr 4SL

The Registration Division (RD) has conducted a review of this request for applicability under PRN 2007-4 and finds that the label change(s) requested falls within the scope of PRN-2007-4. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Nicole Williams of my staff at 703-308-5551.

Sincerely,

A handwritten signature in black ink, appearing to read "Linda Arrington".

Linda Arrington
Notifications & Minor Formulations Team Leader
Registration Division (7505P)
Office of Pesticide Programs

Macf 11/8/10



United States
Environmental Protection Agency
Washington, DC 20460

☐ Registration
☐ Amendment
☒ Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 81927-24	2. EPA Product Manager J. Tompkins	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Alligare, LLC / Alligare Imazapyr 4 SL	PM# 25	
5. Name and Address of Applicant (Include ZIP Code) Alligare, LLC c/o Pyxis Regulatory Consulting, Inc. 4110 136th St. NW Gig Harbor, WA 98332 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or NOTIFICATION to: EPA Reg. No. <u>JAN 12 2009</u> Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 2.5, 30 gallon		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other _____					

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Michael Kellogg	Title Agent	Telephone No. (Include Area Code) (253) 853-7369	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment, or both under applicable law.			6. Date Application Received (Stamped)
2. Signature 	3. Title Agent		
4. Typed Name Michael Kellogg	5. Date 10/20/08		



PROTECTING

THE ENVIRONMENT
AND YOUR
FUTURE
SINCE 1971
ALLIGARE
IS A
PIONEER
IN
PESTICIDE
REGISTRATION
AND
COMPLIANCE

June 3, 2008

To Whom It May Concern:

RE: Letter of Authorization

Dear Sir or Madam:

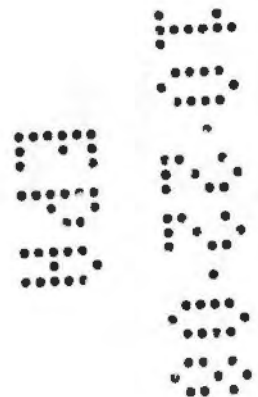
Please let this letter serve to confirm that Pyxis Regulatory Consulting, Inc. is authorized to act as agent for Alligare, LLC (EPA Company Number 81927), before the U.S. Environmental Protection Agency and state governmental agencies in all matters regarding our pesticide registrations pursuant to the Federal Insecticide, Fungicide and Rodenticide Act ("FIFRA"), 7 U.S.C. § 136 et seq. and state law.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Jay Golz
Vice-President & COO

cc: Pyxis Regulatory Consulting, Inc.



PYXIS REGULATORY CONSULTING, INC.

4110 136th St. NW
Gig Harbor, WA 98332

Phone: 253-853-7369
Fax: 253-853-5516
www.PyxisRC.com

October 20, 2008

OK

COURIER DELIVERY

Jim Tompkins (PM 25)
Document Processing Desk (**NOTIF**)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

RE: Alligare, LLC – Alligare Imazapyr 4 SL (EPA Reg. No. 81927-24)
Revision to Container Disposal Instructions per PRN 2007-4

Dear Mr. Tompkins,

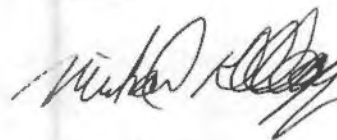
On behalf of Alligare, LLC please find the enclosed label notification revising the container disposal instructions per PRN 2007-4 for Alligare Imazapyr 4 SL.

In support of this notification submission, we submit the following documents:

1. Completed Application for Registration (EPA Form 8570-1)
2. One (1) copy of the Alligare Imazapyr 4 SL labeling with changes tracked
3. One (1) copy of the Alligare Imazapyr 4 SL labeling with changes incorporated
4. Letter of Authorization

Please feel free to contact me by phone (253) 853-7369 or by email at Mike@PyxisRC.com if you have any questions or need any additional information.

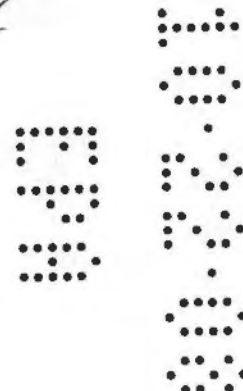
Sincerely,



Michael Kellogg

Enclosures

cc: Jay Golz; Alligare, LLC



Alligare Imazapyr 4 SL

Alligare Imazapyr 4 SL controls undesirable vegetation in forestry use sites managed for timber production including forest roads, non-irrigation ditchbanks. It may also be applied in areas defined as puddles, potholes, berms of ditches, drainage ditches, intermittent drainage, intermittently flooded low lying sites, seasonally dry flood plains, and transitional areas between upland and lowland sites, except in the states of California and New York. **Alligare Imazapyr 4 SL** can be used to treat marshes, swamps and bogs after water has receded, as well as seasonally dry flood deltas, except in the states of California and New York.

ACTIVE INGREDIENT: Isopropylamine salt of Imazapyr (2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid)*52.6%
OTHER INGREDIENTS47.4%
TOTAL.....100.0%

*Equivalent to 42.9% 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid or 4 pounds acid per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION!/PRECAUCION!

PRECAUCION AL USUARIO: Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

FIRST AID	
If swallowed:	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• DO NOT induce vomiting unless told to do so by the poison control center or doctor.• DO NOT give anything by mouth to an unconscious person.
If in eyes:	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
If on skin or clothing:	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
If inhaled:	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.• Call a poison control center or doctor for further treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For medical emergencies involving this product, call 1-800-424-9300.	

EPA Reg. No. 81927-24

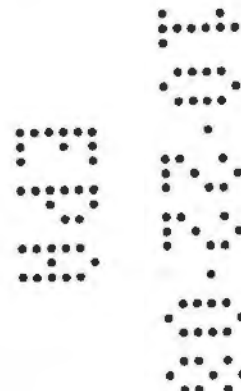
EPA Est. No.

Manufactured For:
Alligare, LLC
13 N. 8th Street
Opelika, AL 36801

Net Contents:

NOTIFICATION

JAN 12 2009



**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION! Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing and wash before reuse.

Personal Protective Equipment (PPE):

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA chemical-resistant category selection chart.

Applicators and other handlers must wear:

- Long-sleeve shirt and long pants.
- Chemical-resistant gloves made of any waterproof material.
- Shoes plus socks.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations:

Users Should:

- Wash hands before eating, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial uses, **DO NOT** apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. **DO NOT** contaminate water when disposing of equipment washwaters. This herbicide is phytotoxic at extremely low concentrations. Non-target plants may be adversely affected from drift.

PHYSICAL AND CHEMICAL HAZARDS

Spray solutions of **Alligare Imazapyr 4 SL** should be mixed, stored and applied only in stainless steel, fiberglass, plastic, and plastic-lined steel containers.

DO NOT mix, store or apply **Alligare Imazapyr 4 SL** or spray solutions of **Alligare Imazapyr 4 SL** in unlined steel (except stainless steel) containers or spray tanks.

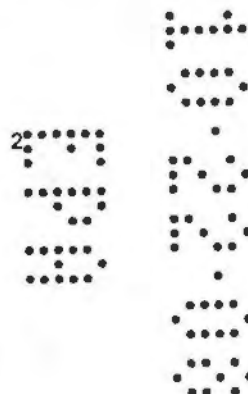
DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Alligare Imazapyr 4 SL should be used only in accordance with recommendations on the booklet label. Keep containers closed to avoid spills and contamination.



Alligare Imazapyr 4 SL may be applied using helicopters, ground operated sprayers, low-volume hand-operated spray equipment such as back-pack and pump-up sprayers, and tree injection equipment.

Observe all cautions and limitations in the labels of products used in combination with **Alligare Imazapyr 4 SL**.

GENERAL INFORMATION

Alligare Imazapyr 4 SL is an aqueous solution intended to be mixed in water and surfactants(s) for control of undesirable vegetation in forestry sites managed for timber production. It can be used along forestry roads, for site preparation and for conifer release from woody and herbaceous competition. **Alligare Imazapyr 4 SL** may also be used for stump and cut-stem treatment for control of unwanted woody vegetation.

Alligare Imazapyr 4 SL may be applied to forestry areas, drainage ditches, intermittent drainage, intermittently flooded low lying sites, seasonally dry flood plains, and transitional areas between upland and lowland sites, **except in the states of California and New York**. Only the edge of drainage ditches that contain water can be treated. **Alligare Imazapyr 4 SL** can also be used to treat marshes, swamps and bogs after water has receded, as well as seasonally dry flood deltas, **except in the states of California and New York**.

Alligare Imazapyr 4 SL also controls undesirable vegetation along non-irrigation ditchbanks and can be used for establishing and maintaining wildlife openings, except in the state of California. See use directions for stump and cut stem treatments and herbaceous weed control.

DO NOT apply to natural or manmade bodies of water such as lakes, reservoirs, ponds, streams, rivers and canals.

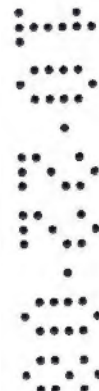
When applied postemergence to weeds, **Alligare Imazapyr 4 SL** will control most annual and perennial grasses and broadleaf weeds in addition to many brush and vine species. **Alligare Imazapyr 4 SL** will provide residual control of labeled weeds which germinate in the treated areas. Postemergence application with a surfactant is the method of choice in most situations, particularly for perennial weeds. For maximum affect, weeds should be growing vigorously at postemergence application and the spray solution should include a surfactant. **Alligare Imazapyr 4 SL** solutions may be broadcast by using ground or aerial equipment, or may be applied as a spot treatment by using low-volume techniques. In addition, **Alligare Imazapyr 4 SL** may be used for stump and cut stem treatments.

Alligare Imazapyr 4 SL controls vegetation by absorption through foliage and roots, from which it is rapidly translocated rapidly throughout the plant, where it accumulates in rapidly-growing meristematic tissue. Treated plants stop growing soon after spray treatment. Chlorosis (yellowing of plant tissue) first appears in the newest leaves and necrosis spreads from this point. In perennials, **Alligare Imazapyr 4 SL** is translocated into and kills the roots and underground storage tissues to prevent most regrowth. Chlorosis and tissue necrosis may not be apparent in some plant species for several weeks after application and may take months for various woody plants, brush and trees.

IMPORTANT

DO NOT use on food or feed crops. **DO NOT** use on Christmas trees. **DO NOT** treat irrigation ditches or water used for irrigation of crops or for domestic purposes. Keep away from fertilizers, insecticides, fungicides and seeds. **DO NOT** drain or flush equipment on or near desirable plants, or onto areas where their roots may extend, or in locations where the chemical may be washed or moved within their dripline. **DO NOT** side trim desirable vegetation with this product. Exercise precautions to prevent spray drift onto desirable plants.

Clean application equipment immediately after using this product by thoroughly flushing with water.



AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. The requirements in this box apply to use on trees being grown for sale or other commercial use, or for commercial seed production, or for production of timber or wood products, or for research purposes.

DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of **12 hours**.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls.
- Shoes plus socks.
- Chemical-resistant gloves made of any waterproof material.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter treated areas until sprays have dried.

SPRAY DRIFT MANAGEMENT

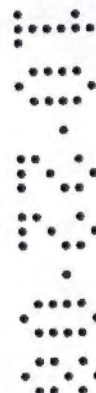
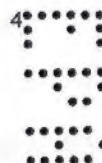
Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

Spray drift from applying this product may damage sensitive plants adjacent to the treatment area. Only apply this product when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, or non-target crops) is minimal. **DO NOT** apply when the following conditions exist that increase the likelihood of spray drift from intended targets: high or gusty winds, high temperatures, low humidity, temperature inversions.

The best drift management strategy and most effective way to reduce drift potential are to apply large droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see **WIND, TEMPERATURE AND HUMIDITY AND TEMPERATURE INVERSIONS**).

Controlling Droplet Size:

- Volume – Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure – **DO NOT** exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of Nozzles – use the minimum number of nozzles that provide uniform coverage.



- **Nozzle Orientation** – Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is recommended practice. Significant deflection from the horizontal will reduce droplet size and increase drift potential.
- **Nozzle Type** – Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift. **DO NOT** use nozzles producing a mist droplet spray.

Application Height: Making applications at the lowest possible height (aircraft, ground driven spray boom) that is safe and practical reduces exposure of droplets to evaporation and wind.

Swath Adjustment: When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the application equipment (e.g. aircraft, ground) upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller droplets, etc.).

Wind: Drift potential is lowest between wind speeds of 3-10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential. **NOTE:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity: When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions: Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud, which can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Wind Erosion: Avoid treating powdery dry or light sandy soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.

Aerial Application Methods and Equipment: Use 2 or more gallons of water per acre. The actual minimum spray volume per acre is determined by the spray equipment used. Use adequate spray volume to provide accurate and uniform distribution of spray particles over the treated area and to avoid spray drift.

Managing Spray Drift from Aerial Applications: Applicators must follow these requirements to avoid off-target drift movement: 1) boom length – the distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor, 2) nozzle orientation – nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees, and 3) application height – without compromising aircraft safety, applications should be made at a height of 10 feet or less above the crop canopy or tallest plants. Applicators must follow the most restrictive use cautions to avoid drift hazards, including those found in this labeling as well as applicable state and local regulations and ordinances.

Ground Application (Broadcast): Use 5 or more gallons of water per acre. The actual minimum spray volume per acre is determined by the spray equipment used. Use adequate spray volume to provide accurate and uniform distribution of spray particles over the treated area and to avoid spray drift.



WEEDS CONTROLLED

Alligare Imazapyr 4 SL provides postemergence control and some residual control of the following target weed species. The degree of control is both species and rate dependent. **Alligare Imazapyr 4 SL** should be used only in accordance with the recommendations on this label.

GRASSES:

The species of annual and perennial grasses controlled by **Alligare Imazapyr 4 SL** include the following:

Annual bluegrass (*Poa annua*)
Bahagrass (*Paspalum notatum*)
Barnyardgrass (*Echinochloa crus-galli*)
Beardgrass (*Andropogon* spp.)
Bermudagrass (*Cynodon dactylon*)¹
Big bluestem (*Andropogon gerardii*)
Broadleaf signalgrass (*Brachiaria platyphylla*)
Canada bluegrass (*Poa compressa*)
Cattail (*Typha* spp.)
Cheat (*Bromus secalinus*)
Cogongrass (*Imperata cylindrica*)²
Crabgrass (*Digitaria* spp.)
Crowfootgrass (*Dactyloctenium aegyptium*)
Dallisgrass (*Paspalum dilatatum*)
Downy brome (*Bromus tectorum*)
Fall panicum (*Panicum dichotomiflorum*)
Feathertop (*Pennisetum villosum*)
Fescue (*Festuca* spp.)
Foxtail (*Setaria* spp.)
Giant reed (*Arundo donax*)
Goosegrass (*Eleusine indica*)
Guineagrass (*Panicum maximum*)
Italian ryegrass (*Lolium multiflorum*)
Itchgrass (*Rottboellia exaltata*)
Johnsongrass (*Sorghum halepense*)¹
Junglerice (*Echinochloa colonum*)
Kentucky bluegrass (*Poa pratensis*)
Lovegrass (*Eragrostis* spp.)¹
Orchardgrass (*Dactylis glomerata*)
Panicum spp.
Paragrass (*Brachiaria mutica*)
Phragmites (*Phragmites australis*)
Prairie cordgrass (*Spartina pectinata*)
Prairie threeawn (*Aristida oligantha*)
Quackgrass (*Agropyron repens*)
Reed canarygrass (*Phalaris arundinacea*)
Saltgrass (*Distichlis stricta*)
Sand dropseed (*Sporobolus cryptandrus*)
Sandbur (*Cenchrus* spp.)
Smooth brome (*Bromus inermis*)
Sprangletop (*Leptochloa* spp.)
Timothy (*Phleum pratense*)
Torpedograss (*Panicum repens*)
Vaseygrass (*Paspalum urvillei*)
Wild barley (*Hordeum* spp.)
Wild oats (*Avena fatua*)

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Wirestem muhly (*Muhlenbergia frondosa*)
Witchgrass (*Panicum capillare*)
Woolly cupgrass (*Eriochloa villosa*)

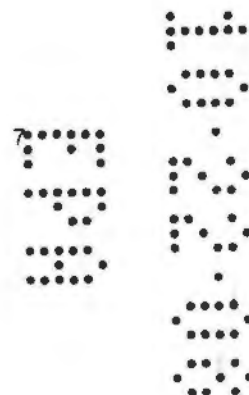
¹ Use higher labeled rates.

² Use minimum of 24 oz. per acre.

BROADLEAF WEEDS:

The species of annual and perennial broadleaf weeds controlled by **Alligare Imazapyr 4 SL** include the following:

Arrowwood (*Pluchea sericea*)
Broom snakeweed (*Gutierrezia sarothrae*)
Bull thistle (*Cirsium vulgare*)
Burclover (*Medicago* spp.)
Burdock (*Arctium* spp.)
Camphorweed (*Heterotheca subaxillaris*)
Canada thistle (*Cirsium arvense*)
Carolina geranium (*Geranium carolinianum*)
Carpetweed (*Mullugo verticillata*)
Chickweed, mouseear (*Cerastium vulgatum*)
Clover (*Trifolium* spp.)
Cocklebur (*Xanthium strumarium*)
Common chickweed (*Stellaria media*)
Common ragweed (*Ambrosia artemisiifolia*)
Cudweed (*Gnaphalium* spp.)
Dandelion (*Taraxacum officinale*)
Desert camelthorn (*Alhagi pseudalhagi*)
Diffuse knapweed (*Centaurea diffusa*)
Dock (*Rumex* spp.)
Dogfennel (*Eupatorium capillifolium*)
Fiddleneck (*Amsinckia intermedia*)
Filaree (*Erodium* spp.)
Fleabane (*Erigeron* spp.)
Giant ragweed (*Ambrosia trifida*)
Goldenrod (*Solidago* spp.)
Gray rabbitbrush (*Chrysothamnus nauseosus*)
Henbit (*Lamium applexicaule*)
Hoary vervain (*Verbena stricta*)
Horseweed (*Conyza canadensis*)
Indian mustard (*Brassica juncea*)
Japanese bamboo/knotweed (*Polygonum cuspidatum*)
Knotweed, prostrate (*Polygonum aviculare*)
Kochia (*Kochia scoparia*)
Lambsquarters (*Chenopodium album*)
Little mallow (*Malva parviflora*)
Milkweed (*Asclepias* spp.)
Miners lettuce (*Montia perfoliata*)
Mullein (*Verbascum* spp.)
Nettleleaf goosefoot (*Chenopodium murale*)
Oxeye daisy (*Chrysanthemum leucanthemum*)
Pepperweed (*Lepidium* spp.)
Pigweed (*Amaranthus* spp.)
Plantain (*Plantago* spp.)
Pokeweed (*Phytolacca americana*)
Primrose (*Oenothera kunthiana*)
Puncturevine (*Tribulus terrestris*)



Purple loosestrife (*Lythrum salicaria*)
 Purslane (*Portulaca* spp.)
 Pusley, Florida (*Richardia scabra*)
 Rocket, London (*Sisymbrium irio*)
 Rush skeletonweed (*Chondrilla juncea*)
 Russian knapweed (*Centaurea repens*)
 Russian thistle (*Salsola kali*)
 Saltbush (*Atriplex* spp.)
 Shepherd's purse (*Capsella bursa-pastoris*)
 Silverleaf nightshade (*Solanum elaeagnifolium*)
 Smartweed (*Polygonum* spp.)
 Sorrell (*Rumex* spp.)
 Sowthistle (*Sonchus* spp.)
 Spurge, annual (*Euphorbia* spp.)
 Stinging nettle (*Urtica dioica*)
 Sunflower (*Helianthus* spp.)
 Sweet clover (*Melilotus* spp.)
 Tansymustard (*Descurainia pinnata*)
 Texas thistle (*Cirsium texanum*)
 Velvetleaf (*Abutilon theophrasti*)
 Western ragweed (*Ambrosia psilostachya*)
 Wild carrot (*Daucus carota*)
 Wild lettuce (*Lactuca* spp.)
 Wild parsnip (*Pastinaca sativa*)
 Wild turnip (*Brassica campestris*)
 Woollyleaf bursage (*Ambrosia grayi*)
 Yellow starthistle (*Centaurea solstitialis*)
 Yellow woodsorrel (*Oxalis stricta*)

VINES AND BRAMBLES:

The species of vines and brambles controlled by Alligare Imazapyr 4 SL include the following:

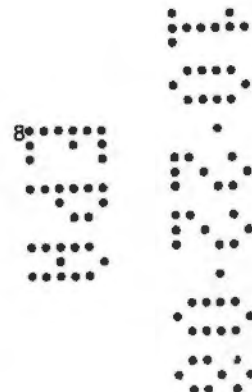
Field bindweed (*Convolvulus arvensis*)
 Hedge bindweed (*Calystegia sepium*)
 Honeysuckle (*Lonicera* spp.)
 Morningglory (*Ipomoea* spp.)
 Poison ivy (*Rhus radicans*)
 Redvine (*Brunnichia cirrhosa*)
 Trumpet creeper (*Campsis radicans*)
 Virginia creeper (*Parthenocissus quinquefolia*)
 Wild buckwheat (*Polygonum convolvulus*)
 Wild grape (*Vitis* spp.)
 Wild rose (*Rosa* spp.)¹
 Including: Multiflora rose (*Rosa multiflora*)
 Macartney rose (*Rosa bracteata*)

¹ Use higher labeled rates.

WOODY BRUSH AND TREES:

The species of woody brush and trees controlled by Alligare Imazapyr 4 SL include the following:

Alder (*Alnus* spp.)
 American beech (*Fagus grandifolia*)
 Ash (*Fraxinus* spp.)¹
 Aspen (*Populus* spp.)
 Autumn olive (*Elaeagnus umbellata*)
 Bald cypress (*Taxodium distichum*)
 Bigleaf Maple (*Acer macrophyllum*)²



Birch (*Betula* spp.)¹
 Black oak (*Quercus kelloggii*)
 Blackgum (*Nyssa sylvatica*)³
 Boxelder (*Acer negundo*)
 Brazilian peppertree (*Schinus terebinthifolius*)
 Ceanothus (*Ceanothus* spp.)
 Cherry (*Prunus* spp.)^{1,3} Chinaberry (*Melia azedarach*)
 Chinese tallow-tree (*Sapium sebiferum*)
 Chinquapin (*Castanopsis chrysophylla*)
 Cottonwood (*Populus trichocarpa* and *Populus deltoides*)
 Cypress (*Taxodium* spp.)
 Dogwood (*Cornus* spp.)¹
 Eucalyptus (*Eucalyptus* spp.)
 Hawthorn (*Crataegus* spp.)
 Hickory (*Carya* spp.)¹
 Huckleberry (*Gaylussacia* spp.)
Lyonia spp.
 Including: Fetterbush (*Lyonia lucida*)
 Staggerbush (*Lyonia mariana*)
 Madrone (*Arbutus menziesii*)
 Maple (*Acer* spp.)
 Melaleuca (*Melaleuca quinquenervia*)
 Mulberry (*Morus* spp.)^{1,4}
 Oak (*Quercus* spp.)⁵
 Persimmon (*Diospyros virginiana*)³
 Poison oak (*Rhus diversiloba*)
 Popcorn-tree (*Sapium sebiferum*)
 Poplar (*Populus* spp.)
 Privet (*Ligustrum vulgare*)
 Red Alder (*Alnus rubra*)
 Red Maple (*Acer rubrum*)
 Saltcedar (*Tamarix pentandra*)
 Sassafras (*Sassafras albidum*)
 Sourwood (*Oxydendrum arboreum*)³
 Sumac (*Rhus* spp.)
 Sweetgum (*Liquidambar styraciflua*)
 Sycamore (*Platanus occidentalis*)
 Tanoak (*Lithocarpus densiflorus*)¹
 TITi (*Cyrilla racemiflora*)¹
 Tree of heaven (*Ailanthus altissima*)
Vaccinium spp.
 Including: Blueberry (*Vaccinium* spp.)
 Sparkleberry (*Vaccinium arboreum*)
 Willow (*Salix* spp.)
 Yellow poplar (*Liriodendron tulipifera*)

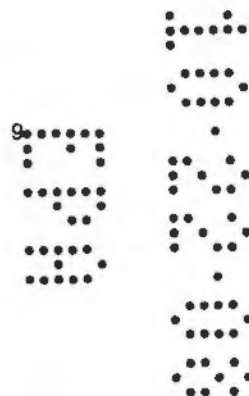
¹ Use higher labeled rates.

² Bigleaf Maple requires at least a 5% spray solution concentration.

³ Best control with applications prior to formation of fall leaf color.

⁴ The degree of control may be species dependent.

⁵ For Water oak (*Quercus nigra*), Laurel oak (*Q. lauriflora*), Willow oak (*Q. phellos*) and Live oak (*Q. virginiana*) use higher labeled rates.



MIXING AND APPLICATION INSTRUCTIONS

HELICOPTER EQUIPMENT:

Thoroughly mix the specified amount of **Alligare Imazapyr 4 SL** in 5 to 30 gallons of water per acre and apply uniformly with properly calibrated helicopter equipment. Use a nonionic surfactant to improve weed control. A drift control agent may be used at its recommended label rate. An anti-foam agent may be added, if needed. Exercise all precautions to minimize or eliminate spray drift. Avoid applications during windy or gusty conditions. Use of a Microfoil™ boom, Thru-Valve™ boom, raindrop nozzles, controlled droplet booms and nozzle configurations is recommended. Maintain adequate buffer zones to minimize potential impacts to desirable vegetation.

IMPORTANT: DO NOT make applications by fixed wing aircraft.

Thoroughly clean mixing and application equipment by thoroughly flushing with water immediately after using this product. Prolonged exposure of uncoated/unpainted steel (except stainless steel) surfaces to this product may result in corrosion and failure of the exposed part. Maintaining painted surfaces may prevent corrosion.

GROUND EQUIPMENT:

Thoroughly mix and apply the specified amount of **Alligare Imazapyr 4 SL** in 5 to 100 gallons of water per acre. Use a nonionic surfactant to enhance weed control. A drift control agent and an anti-foam agent may also be added at the recommended label rates, if needed. If desired, a spray pattern indicator may be used at the recommended label rate. To minimize spray drift, select proper nozzles to avoid spraying a fine mist, use pressures less than 50 psi and **DO NOT** spray under gusty or windy conditions (also refer to **SPRAY DRIFT MANAGEMENT** section). Maintain adequate buffer zones to minimize potential impacts to desirable vegetation.

For best results, apply the spray solution to uniformly cover the foliage of the undesirable vegetation to be controlled.

Clean mixing and application equipment immediately after using this product by thoroughly flushing with water.

DIRECTED FOLIAR OR SPOT SPRAY EQUIPMENT:

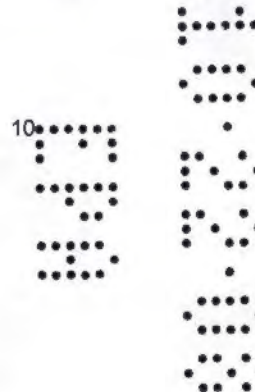
For directed or spot spray applications with helicopter, ground equipment or low-volume hand-operated spray equipment, thoroughly mix 1.0 to 5.0% **Alligare Imazapyr 4 SL** by volume (v/v) in water with at least 1/4% nonionic surfactant by volume, according to the table below.

MIXING GUIDE FOR ALLIGARE IMAZAPYR 4 SL

SOLUTION VOLUME	Alligare Imazapyr 4 SL CONCENTRATION (%)			NONIONIC SURFACTANT
	1.0	2.5	5.0	
1 gallon	1-1/3 oz.	3-1/3 oz.	6-2/3 oz.	1/3 oz.
5 gallons	6-2/3 oz.	1 pint	2 pints	1-2/3 oz.
10 gallons	13-1/3 oz.	2 pints	4 pints	3-1/3 oz.
25 gallons	2 pints	5 pints	10 pints	8 oz.
100 gallons	1 gal.	2.5 gal.	5 gal.	2 pints

2 tablespoons = 1 fluid ounce

For optimum performance and efficacy, apply spray to uniformly cover the target vegetation foliage. Direct spray to avoid contacting desirable conifers. Avoid direct application to desired plant species as injury may occur.



IMPORTANT: DO NOT over apply to cause run-off from treated foliage. **DO NOT** exceed specified dosage rate per acre.

STUMP AND CUT STEM TREATMENTS

Alligare Imazapyr 4 SL will control undesirable woody vegetation in forest management when applied as a water solution to the cambium area of freshly-cut stump surfaces or to cuts on the stem of the target woody vegetation. Applications can be made at any time of the year except during periods of heavy sap flow in the spring. Tree injection and cut stem treatments are most effective in late summer and early fall. **DO NOT** over-apply to cause run-off or puddling of spray solution.

MIXING:

Mix **Alligare Imazapyr 4 SL** as either a concentrate or dilute solution for stump and cut stem treatments. Apply dilute solutions to the surface of the stump or to cuts on the stem of the target woody vegetation. Apply concentrate solutions to cuts on the stem. Use of the concentrate solutions permits application to fewer cuts on the stem, especially for large diameter trees. Follow the application directions below to determine proper application techniques for each type of solution.

To prepare a dilute solution, mix 6 fluid ounces of **Alligare Imazapyr 4 SL** with one gallon of water. If temperatures are such that freezing of the spray mixture may occur, antifreeze (ethylene glycol) may be added according to manufacturer's label to prevent freezing. The use of a surfactant or penetrating agent may improve herbicide uptake through partially callused cambium tissue.

To prepare a concentrated solution, mix use undiluted **Alligare Imazapyr 4 SL** product or mix up to 75% water, by volume.

APPLICATION WITH DILUTE SOLUTIONS:

For cut stump treatments: Spray or brush the solution onto the cambium area of the freshly cut stump surface. Thoroughly wet the entire cambium area (the wood next to the bark of the stump).

For tree injection treatments: Using standard injection equipment, apply 1 milliliter of solution at each injection site around the tree with no more than one inch intervals between cut edges. Insure that the injector completely penetrates the bark at each injection site.

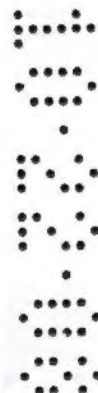
For frill or girdle treatments: Use a hatchet, machete or similar implement to make cuts through the bark around the tree at intervals no more than two inches between cut edges. Spray or brush **Alligare Imazapyr 4 SL** solution into each cut until thoroughly wet.

APPLICATION WITH CONCENTRATED SOLUTIONS:

For tree injection treatments: Using standard injection equipment, apply 1 milliliter of solution at each injection site. Make at least one injection cut for every three inches of Diameter at Breast Height (DBH) on the target tree. For example, a three inch DBH tree will receive 1 injection cut while a six inch DBH tree will receive 2 injection cuts. On trees requiring more than one injection site, place the injection cuts at approximately equal intervals around the tree.

For hack and squirt treatments: Use a hatchet, machete or similar implement to make cuts at a downward angle completely through the bark and cambium at approximately equal intervals around the tree. Make at least one cut for every 3 inches of DBH on the target tree as describer above, using a squirt bottle, syringe, or similar device apply about 1 milliliter of concentrate solution into each cut, ensuring that the solution does not run out of the cut.

NOTE: Injury may occur to desirable woody plants if the shoots extend from the same root system or their root systems are grafted to those of the treated tree.



SITE PREPARATION TREATMENTS

Alligare Imazapyr 4 SL will control labeled grass and broadleaf weeds, vines, brambles, woody brush and trees on forest sites when applied before replanting the following conifer crop species:

Crop Species	Rate (fl oz./A)
Loblolly Pine (<i>Pinus taeda</i>)	24 – 40
Loblolly X Pitch Hybrid	24 – 40
Longleaf Pine (<i>Pinus palustris</i>)	24 – 40
Shortleaf Pine (<i>Pinus echinata</i>)	24 – 40
Virginia Pine (<i>Pinus virginiana</i>)	24 – 40
Slash Pine (<i>Pinus elliotii</i>)	20 – 32
Douglas-Fir (<i>Pseudotsuga menziesii</i>)	12 – 24
Coastal Redwood (<i>Sequoia sempervirens</i>)	12 – 24
Western Hemlock (<i>Tsuga heterophylla</i>)	12 – 24
California Red Fir (<i>Abies magnifica</i>)	12 – 20
California White Fir (<i>Abies concolor</i>)	12 – 20
Jack Pine (<i>Pinus banksiana</i>)	12 – 16
Lodgepole Pine (<i>Pinus contorta</i>)	12 – 16
Pitch Pine (<i>Pinus rigida</i>)	12 – 16
Ponderosa Pine (<i>Pinus ponderosa</i>)	12 – 16
Sugar Pine (<i>Pinus lambertiana</i>)	12 – 16
White Pine (<i>Pinus strobus</i>)	12 – 16
Black Spruce (<i>Picea mariana</i>)	12 – 16
Red Spruce (<i>Picea rubens</i>)	12 – 16
White Spruce (<i>Picea glauca</i>)	12 – 16

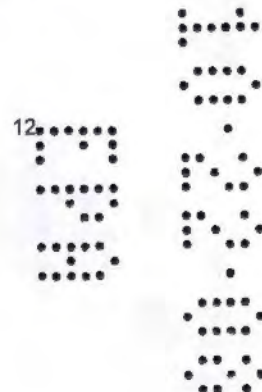
Apply the specified rate of **Alligare Imazapyr 4 SL** per acre as a broadcast foliar spray for long-term control of labeled woody plants and residual control of herbaceous annual and perennial weeds. Within 4 to 6 weeks of treatment, herbaceous weeds will be controlled and may provide fuel to facilitate a site preparation burn for controlling conifers or other species tolerant to the herbicide.

For helicopter applications, apply the specified rate of **Alligare Imazapyr 4 SL** per acre in 5 to 30 gallons total spray solution. For mechanical ground sprays and backpack applications, apply the specified rate of **Alligare Imazapyr 4 SL** per acre in 5 to 100 gallons total spray solution. Use at least 1/2% percent by volume nonionic surfactant. Use the higher label rates of **Alligare Imazapyr 4 SL** and higher spray volumes to control especially dense, multi-layered canopies of hardwood stands or difficult to control species.

Tank mixes may be necessary to control conifers and other species that are tolerant to **Alligare Imazapyr 4 SL**. Observe all precautions and restrictions on the tank mix partner label. Always follow the most restrictive label. NOTE that some other products labeled for forest site preparation may kill plants such as legumes and blackberry that are desirable for wildlife habitat.

Where quick initial brown out (deadening of foliage) is desired for burning, apply a tank mixture of 16 to 32 fluid oz. **Alligare Imazapyr 4 SL** plus 16 to 64 fluid oz. Accord® or 16 to 48 fluid oz. Garlon 4™ per acre. To control seedling pines, apply 16 to 32 fluid oz. **Alligare Imazapyr 4 SL** plus 3 to 4 quarts Accord®. For site preparation, rates less than 24 oz. **Alligare Imazapyr 4 SL** will provide suppression of hardwood brush and trees; however, some resprouting may occur.

DO NOT plant seedlings of Black Spruce (*Picea mariana*) or White Spruce (*Picea glauca*) on sites that have been broadcast treated with **Alligare Imazapyr 4 SL** or into the treated zone of spot or banded applications for at least three months after treatment or injury may occur.



HERBACEOUS WEED CONTROL

Use **Alligare Imazapyr 4 SL** for selective weed control in the following conifers:

Crop Species	Rate (fl. oz./A)
Loblolly Pine (<i>Pinus taeda</i>)	6 - 10
Loblolly X Pitch Hybrid	6 - 10
Virginia Pine (<i>Pinus virginiana</i>)	6 - 10
Longleaf Pine (<i>Pinus palustris</i>) ¹	4 - 6
Slash Pine (<i>Pinus elliottii</i>) ¹	4 - 6
Douglas-Fir (<i>Pseudotsuga menziesii</i>) ¹	4 - 6

¹ Use of surfactant is not recommended.

Alligare Imazapyr 4 SL may be broadcast, banded over tree rows or directed for release of young conifers from herbaceous weeds. To diminish the possibility of conifer injury, **DO NOT** apply **Alligare Imazapyr 4 SL** when conifers are under stress from drought, diseases, animal or winter injury, planting shock or other stresses that may reduce conifer vigor. Broadcast applications may be made by helicopter, ground or backpack sprayer. For best results, apply **Alligare Imazapyr 4 SL** to newly emerged weeds. Use the higher labeled rates for hard-to-control weeds. Where herbaceous weeds have over-topped conifer seedlings, add a nonionic surfactant at up to 1/4% of the spray solution volume to improve weed control (except for Slash Pine, Longleaf Pine, and Douglas-fir). Conifers in the treated area may exhibit minor growth inhibition, especially treatments are applied during periods of active conifer growth.

Alligare Imazapyr 4 SL may also be applied by backpack or hand-held sprayers to control herbaceous weeds around individual conifer seedlings. Mix 0.4 to 0.6 fluid oz. **Alligare Imazapyr 4 SL** and 0.2 fluid oz. nonionic surfactant per gallon of water. Direct the spray to the weeds and minimize spray contact with conifer seedlings to avoid seedling damage. **DO NOT** exceed the maximum labeled rates listed above.

Alligare Imazapyr 4 SL can also be tank mixed with Oust® to broaden the weed control spectrum. For loblolly pine only, apply 4 to 6 fluid oz. **Alligare Imazapyr 4 SL** plus 1-2 fluid oz. Oust® (product) per acre. Application of **Alligare Imazapyr 4 SL** plus Oust® to other conifer species, however, may cause growth suppression.

CONIFER RELEASE TREATMENTS

Alligare Imazapyr 4 SL may be applied as a broadcast or directed spray to suppress the labeled brush, tree and herbaceous weed species. In conifer stands of all ages, use directed low-volume sprays onto unwanted vegetation and avoid direct contact to the conifers. **DO NOT** exceed the maximum labeled rates listed below.

Use broadcast applications of **Alligare Imazapyr 4 SL** for release of the following conifers from hardwood competition:

Crop Species	Rate (fl. oz./A)
Loblolly Pine (<i>Pinus taeda</i>) ³	12 - 20
Loblolly X Pitch Hybrid ³	12 - 20
Virginia Pine (<i>Pinus virginiana</i>) ^{3,4}	12 - 20
Longleaf Pine (<i>Pinus palustris</i>) ⁵	12 - 16
Pitch Pine (<i>Pinus rigida</i>)	12 - 16
Shortleaf Pine (<i>Pinus echinata</i>)	12 - 16
Slash Pine (<i>Pinus elliottii</i>) ⁵	12 - 16
White Pine (<i>Pinus strobus</i>) ¹	8 - 16
California Red Fir (<i>Abies magnifica</i>)	8 - 12

Crop Species	Rate (fl. oz./A)
California White Fir (<i>Abies concolor</i>)	8 - 12
Lodgepole Pine (<i>Pinus contorta</i>) ²	8 - 12
Douglas-Fir (<i>Pseudotsuga menziesii</i>) ²	8 - 12
Jack Pine (<i>Pinus banksiana</i>) ^{2,6}	6 - 12
Black Spruce (<i>Picea mariana</i>) ^{2,6}	6 - 12
Red Spruce (<i>Picea rubens</i>) ^{2,6}	6 - 12
White Spruce (<i>Picea glauca</i>) ^{2,6}	6 - 12

¹ **DO NOT** make applications to white pine stands younger than three years old. To minimize potential injury to White Pine, release treatments should not be made prior to July 15.

² Applications should be made after formation of final conifer resting buds in the fall or height growth inhibition may occur.

³ Mid-rotation release: For broadcast applications below the pine canopy in established stands of Loblolly Pine, Loblolly X pitch hybrid, and Virginia Pine use 16-32 oz. product per acre. For mid-rotation release of other species use rates listed above.

⁴ See specific directions below for release of Loblolly Pine seedlings during the first growing season.

⁵ See specific directions below for release of 2-to-5 year old Slash Pine and Longleaf Pine.

⁶ See specific directions below for use ONLY in Maine for release of Jack Pine, Black Spruce, Red Spruce and White Spruce.

Apply the specified rate of **Alligare Imazapyr 4 SL** per acre when applying broadcast sprays by helicopter or ground spray equipment. Refer to mixing and application instructions for proper spray volumes. A nonionic surfactant may be added but at no more than 1/4% by volume of the finished spray. Use the higher label rates of **Alligare Imazapyr 4 SL** when controlling especially dense stands or hard to control species.

Conifers may exhibit some minor growth inhibition when release treatments are made during periods of active conifer growth. To minimize potential growth inhibition, **DO NOT** make broadcast applications to conifer stands, except loblolly pine, before the end of the second growing season and, then, not until late in the growing season. To reduce the possibility of conifer injury, **DO NOT** apply **Alligare Imazapyr 4 SL** when conifers are under stress from drought, diseases, animal or winter injury, or other stresses that reduce conifer vigor.

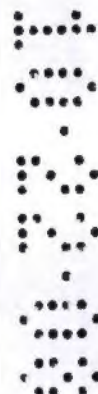
For release of loblolly pine seedlings during the first growing season following planting or for one-year-old natural loblolly pine regeneration: For one-year-old loblolly pine release, apply 12-20 fluid oz./A **Alligare Imazapyr 4 SL** after July 15. Use rates below 16 fluid oz./A for growth suppression of hardwoods; however, some hardwood resprouting should be expected.

For release of 2-to-5 year old slash pine and longleaf pine from undesirable woody plants: Broadcast release treatments over the top of pines after August 15 and only in stands 2 to 5 years old. **DO NOT** add surfactant to the spray solution and use the lower labeled rates on areas with sandy soils.

For release of slash pine over 5 years old by aerial application: Apply ONLY after September 15 after height growth has stopped and buds have set. Use 12 to 14 fluid oz **Alligare Imazapyr 4 SL** per acre but only 12 fluid oz on areas with sandy soils. **DO NOT** add surfactant to the spray solution. **DO NOT** over apply by overlapping the spray pattern or dressing up around the edges of a tract. Since this treatment may cause some inhibition in height growth or terminal dieback, it should not be used if such affects are unacceptable.

For use ONLY in Maine for release of Jack Pine, Black Spruce, Red Spruce and White Spruce: For hardwood growth suppression, apply **Alligare Imazapyr 4 SL** at rates less than 6 fluid oz. per acre when

14.



tank mixed with glyphosate. Use a nonionic surfactant at rates greater than 0.25% v/v. The use of **Alligare Imazapyr 4 SL** with more than 0.25% v/v nonionic surfactant can result in conifer growth inhibition or mortality, and should not be used if this type of conifer injury is unacceptable.

The use of **Alligare Imazapyr 4 SL** rates below 6 oz./A are intended for hardwood brush growth suppression and hardwood brush resprouting should be expected.

For spot treatment of undesirable brush and hardwood vegetation: Apply Alligare Imazapyr 4 SL as a directed foliar or cut stem application in conifer stands of all ages for the conifer species listed above. Mix and apply as described above for directed foliar or cut stem applications. **DO NOT** exceed the maximum labeled rates listed above. Cut stem applications may be used for spot treatment of undesirable hardwoods in Ponderosa Pine stands using 12 oz. or less of product per acre.

Avoid direct spray contact to desired plant species as injury may occur. Injury may occur to non-target or desirable hardwoods or conifers if they extend from the same root system or their root systems are grafted to those of the treated tree or if their roots extend into the treated zone.

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: **DO NOT** store below 10°F.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying.

(Nonrefillable ≤ 5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drift. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(Nonrefillable > 5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Deleted: FOR 2.5 GALLON AND 30 GALLON: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in an approved sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.¶

CONTAINER DISPOSAL FOR BULK: When this container is empty, replace the cap and seal all openings that have been opened during use, and return the container to the point of purchase, or to a designated location. This container must only be refilled with the pesticide product. **DO NOT** reuse the container for any other purpose. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. Check for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling. Disposal of container must be in compliance with state and local regulations.

IMPORTANT: Read the entire **DIRECTIONS FOR USE** and the **CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY** before using this product. If terms are not acceptable, return the unopened product container at once.

CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

To the extent consistent with applicable law, upon purchase or use of this product, purchaser and user agree to the following terms:

Warranty: Alligare, LLC (the Company) warrants that this product conforms to the chemical description on the label in all material respects and is reasonably fit for the purpose referred to in the directions for use, subject to the exceptions noted below, which are beyond the Company's control. To the extent consistent with applicable law, the Company makes no other

representation or warranty, express or implied, concerning the product, including no implied warranty of merchantability or fitness for a particular purpose. No such warranty shall be implied by law, and no agent or representative is authorized to make any such warranty on the Company's behalf.

Terms of Sale: The Company's directions for use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, and the manner of use or application (including failure to adhere to label directions), all of which are beyond the Company's control. To the extent consistent with applicable law, all such risks are assumed by the user.

Limitation of Liability: To the extent consistent with applicable law, the exclusive remedy against the Company for any cause of action relating to the handling or use of this product is a claim for damages, and in no event shall damages or any other recovery of any kind exceed the price of the product which caused the alleged loss, damage, injury or other claim. To the extent consistent with applicable law, under no circumstances shall the Company be liable for any special, indirect, incidental or consequential damages of any kind, including loss of profits or income, and any such claims are hereby waived. Some states do not allow the exclusion or limitation of incidental or consequential damages.

The Company and the seller offer this product, and the purchaser and user accept this product, subject to the foregoing warranty, terms of sale and limitation of liability, which may be varied or modified only by an agreement in writing signed on behalf of the Company by an authorized representative.

Microfoil is a trademark of Rhone Poulenc Ag. Company.

Thru-Valve is a trademark of Waldrum Specialties.

Accord is a registered trademark of Monsanto Company

Oust is a registered trademark of E.I. DuPont de Nemours and Company.

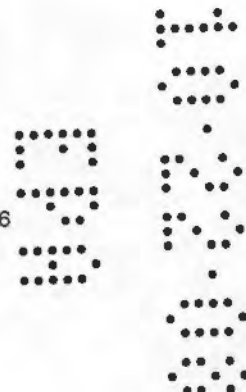
Garlon is a trademark of Dow AgroSciences Company.

EPA 20081020

Deleted: 20071119

NOTIFICATION

JAN 12 2009



MATERIAL TO BE ADDED TO JACKET

REG #

81927-24

16B 61

Description:

PRN 98-10 changes on

PRN 2007-4 changes

check all that apply	
<input type="checkbox"/>	new stamped accepted label
<input type="checkbox"/>	new CSF
<input checked="" type="checkbox"/>	notification

Send to CSC

Instructions:

Attach this sheet to the top of **ALL** material sent to the file room (both loose paper and new material in jackets). This sheet will be imaged; a clear description will aid in finding material in the e-jacket. Remove staples from all material. If returning loose paper then hold together with a binder or paper clip. CSFs should be placed in the CSF folder (if returning jacket) or covered with a red CBI sheet (if returning loose paper). Material to be returned to file room should be place in the appropriate bin.

Reviewer's

Name:

Owen Becker

Date:

Phone:

308 88 95

Division:

RD



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

DEC 30 2008

Mr. Michael Kellogg, Agent,
Pyxis Regulatory Consulting, Inc.
For Alligare, LLC
4110 13th. St. NW
Gig Harbor, WA 98332

SUBJECT: Application for Pesticide Notification (PRN 98-10)
Request General Label Change (CA State Regulations)
EPA Reg. No. 81927-24
Application Dated December 9, 2008

Dear Registrant:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated 12/09/08 for the above product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-6249 or Owen F. Beeder of my staff at 703-308-8899.

Sincerely,

A handwritten signature in black ink, appearing to be "Linda Arrington".

Linda Arrington
Notifications & Minor Formulations Team Leader
Registration Division (7505P)
Office of Pesticide Programs



United States
Environmental Protection Agency
Washington, DC 20460

☐ Registration
☐ Amendment
☒ Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 81927-24	2. EPA Product Manager J. Tompkins	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Alligare, LLC / Alligare Imazapyr 4 SL	PM# 25	
5. Name and Address of Applicant (Include ZIP Code) Alligare, LLC c/o Pyxis Regulatory Consulting, Inc. 4110 136th St. NW Gig Harbor, WA 98332 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. NOTIFICATION Product Name DEC 30 2000	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of a minor label revision per PR Notice 98-10 to facilitate registration in the state of California. This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal	
				<input type="checkbox"/> Plastic	
				<input type="checkbox"/> Glass	
				<input type="checkbox"/> Paper	
				<input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 2.5, 30 gallon		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Michael Kellogg	Title Agent	Telephone No. (Include Area Code) (253) 853-7269
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Agent	
4. Typed Name Michael Kellogg	5. Date 12/9/98	



PROTECTING
THE FUTURE
OF THE
COUNTRY
FROM
Pests and
Diseases

June 3, 2008

To Whom It May Concern:

RE: Letter of Authorization

Dear Sir or Madam:

Please let this letter serve to confirm that Pyxis Regulatory Consulting, Inc. is authorized to act as agent for Alligare, LLC (EPA Company Number 81927), before the U.S. Environmental Protection Agency and state governmental agencies in all matters regarding our pesticide registrations pursuant to the Federal Insecticide, Fungicide and Rodenticide Act ("FIFRA"), 7 U.S.C. § 136 et seq. and state law.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Jay Golz
Vice-President & COO

cc: Pyxis Regulatory Consulting, Inc.

PYXIS REGULATORY CONSULTING, INC.

4110 136th St. NW
Gig Harbor, WA 98332

Phone: 253-853-7369
Fax: 253-853-5516
www.PyxisRC.com

December 9, 2008

COURIER DELIVERY

Jim Tompkins (PM 25)
Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

RE: Alligare, LLC – Alligare Imazapyr 4 SL (EPA Reg. No. 81927-24)
Notification of a Minor Label Revision per PRN 98-10 to Facilitate Registration in the State of California

Dear Mr. Tompkins,

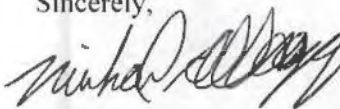
On behalf of Alligare, LLC please find the enclosed notification of a minor label revision to Alligare Imazapyr 4 SL (EPA Reg. No. 81927-24) to facilitate registration in the State of California. On page 11 of the enclosed label the phrase "Except in the state of California" has been added to the beginning of the sentence "if temperatures are such that freezing of the spray mixture may occur..."

In support of this notification submission, we submit the following documents:

1. Completed Application for Registration (EPA Form 8570-1)
2. One (1) copy of the Alligare Imazapyr 4 SL labeling with changes tracked
3. One (1) copy of the Alligare Imazapyr 4 SL labeling with changes incorporated
4. Letter of Authorization

Please feel free to contact me by phone (253) 853-7369 or by email at Mike@PyxisRC.com if you have any questions or need any additional information.

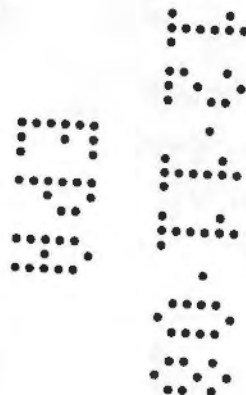
Sincerely,



Michael Kellogg

Enclosures

cc: Jay Golz; Alligare, LLC



Alligare Imazapyr 4 SL

Alligare Imazapyr 4 SL controls undesirable vegetation in forestry use sites managed for timber production including forest roads, non-irrigation ditchbanks. It may also be applied in areas defined as puddles, potholes, berms of ditches, drainage ditches, intermittent drainage, intermittently flooded low lying sites, seasonally dry flood plains, and transitional areas between upland and lowland sites, except in the states of California and New York. **Alligare Imazapyr 4 SL** can be used to treat marshes, swamps and bogs after water has receded, as well as seasonally dry flood deltas, except in the states of California and New York.

ACTIVE INGREDIENT: Isopropylamine salt of Imazapyr (2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid)*52.6%
OTHER INGREDIENTS47.4%
TOTAL100.0%

*Equivalent to 42.9% 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid or 4 pounds acid per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION!/PRECAUCION!

PRECAUCION AL USUARIO: Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

FIRST AID	
If swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • DO NOT induce vomiting unless told to do so by the poison control center or doctor. • DO NOT give anything by mouth to an unconscious person.
If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For medical emergencies involving this product, call 1-800-424-9300.	

EPA Reg. No. 81927-24

Manufactured For:
Alligare, LLC
13 N. 8th Street
Opelika, AL 36801

NOTIFICATION

DEC 30 2008

Net Contents:

EPA Est. No. 1-800-424-9300



PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION! Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing and wash before reuse.

Personal Protective Equipment (PPE):

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA chemical-resistant category selection chart.

Applicators and other handlers must wear:

- Long-sleeve shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations:

Users Should:

- Wash hands before eating, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial uses, **DO NOT** apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. **DO NOT** contaminate water when disposing of equipment washwaters. This herbicide is phytotoxic at extremely low concentrations. Non-target plants may be adversely affected from drift.

PHYSICAL AND CHEMICAL HAZARDS

Spray solutions of **Alligare Imazapyr 4 SL** should be mixed, stored and applied only in stainless steel, fiberglass, plastic, and plastic-lined steel containers.

DO NOT mix, store or apply **Alligare Imazapyr 4 SL** or spray solutions of **Alligare Imazapyr 4 SL** in unlined steel (except stainless steel) containers or spray tanks.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Alligare Imazapyr 4 SL should be used only in accordance with recommendations on the booklet label. Keep containers closed to avoid spills and contamination.

Alligare Imazapyr 4 SL may be applied using helicopters, ground operated sprayers, low-volume hand-operated spray equipment such as back-pack and pump-up sprayers, and tree injection equipment.

Observe all cautions and limitations in the labels of products used in combination with **Alligare Imazapyr 4 SL**.

GENERAL INFORMATION

Alligare Imazapyr 4 SL is an aqueous solution intended to be mixed in water and surfactants(s) for control of undesirable vegetation in forestry sites managed for timber production. It can be used along forestry roads, for site preparation and for conifer release from woody and herbaceous competition. **Alligare Imazapyr 4 SL** may also be used for stump and cut-stem treatment for control of unwanted woody vegetation.

Alligare Imazapyr 4 SL may be applied to forestry areas, drainage ditches, intermittent drainage, intermittently flooded low lying sites, seasonally dry flood plains, and transitional areas between upland and lowland sites, **except in the states of California and New York**. Only the edge of drainage ditches that contain water can be treated. **Alligare Imazapyr 4 SL** can also be used to treat marshes, swamps and bogs after water has receded, as well as seasonally dry flood deltas, **except in the states of California and New York**.

Alligare Imazapyr 4 SL also controls undesirable vegetation along non-irrigation ditchbanks and can be used for establishing and maintaining wildlife openings, except in the state of California. See use directions for stump and cut stem treatments and herbaceous weed control.

DO NOT apply to natural or manmade bodies of water such as lakes, reservoirs, ponds, streams, rivers and canals.

When applied postemergence to weeds, **Alligare Imazapyr 4 SL** will control most annual and perennial grasses and broadleaf weeds in addition to many brush and vine species. **Alligare Imazapyr 4 SL** will provide residual control of labeled weeds which germinate in the treated areas. Postemergence application with a surfactant is the method of choice in most situations, particularly for perennial weeds. For maximum affect, weeds should be growing vigorously at postemergence application and the spray solution should include a surfactant. **Alligare Imazapyr 4 SL** solutions may be broadcast by using ground or aerial equipment, or may be applied as a spot treatment by using low-volume techniques. In addition, **Alligare Imazapyr 4 SL** may be used for stump and cut stem treatments.

Alligare Imazapyr 4 SL controls vegetation by absorption through foliage and roots, from which it is translocated rapidly throughout the plant, where it accumulates in rapidly-growing meristematic tissue. Treated plants stop growing soon after spray treatment. Chlorosis (yellowing of plant tissue) first appears in the newest leaves and necrosis spreads from this point. In perennials, **Alligare Imazapyr 4 SL** is translocated into and kills the roots and underground storage tissues to prevent most regrowth. Chlorosis and tissue necrosis may not be apparent in some plant species for several weeks after application and may take months for various woody plants, brush and trees.

IMPORTANT

DO NOT use on food or feed crops. **DO NOT** use on Christmas trees. **DO NOT** treat irrigation ditches or water used for irrigation of crops or for domestic purposes. Keep away from fertilizers, insecticides, fungicides and seeds. **DO NOT** drain or flush equipment on or near desirable plants, or onto areas where their roots may extend, or in locations where the chemical may be washed or moved within their dripline. **DO NOT** side trim desirable vegetation with this product. Exercise precautions to prevent spray drift onto desirable plants.

Clean application equipment immediately after using this product by thoroughly flushing with water.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. The requirements in this box apply to use on trees being grown for sale or other commercial use, or for commercial seed production, or for production of timber or wood products, or for research purposes.

DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of **12 hours**.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Shoes plus socks
- Chemical-resistant gloves made of any waterproof material

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter treated areas until sprays have dried.

SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

Spray drift from applying this product may damage sensitive plants adjacent to the treatment area. Only apply this product when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, or non-target crops) is minimal. **DO NOT** apply when the following conditions exist that increase the likelihood of spray drift from intended targets: high or gusty winds, high temperatures, low humidity, temperature inversions.

The best drift management strategy and most effective way to reduce drift potential are to apply large droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see **WIND, TEMPERATURE AND HUMIDITY AND TEMPERATURE INVERSIONS**).

Controlling Droplet Size:

- Volume – Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure – **DO NOT** exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of Nozzles – use the minimum number of nozzles that provide uniform coverage.

- **Nozzle Orientation** – Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is recommended practice. Significant deflection from the horizontal will reduce droplet size and increase drift potential.
- **Nozzle Type** – Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift. **DO NOT** use nozzles producing a mist droplet spray.

Application Height: Making applications at the lowest possible height (aircraft, ground driven spray boom) that is safe and practical reduces exposure of droplets to evaporation and wind.

Swath Adjustment: When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the application equipment (e.g. aircraft, ground) upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller droplets, etc.).

Wind: Drift potential is lowest between wind speeds of 3-10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential. **NOTE:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity: When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions: Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud, which can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Wind Erosion: Avoid treating powdery dry or light sandy soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.

Aerial Application Methods and Equipment: Use 2 or more gallons of water per acre. The actual minimum spray volume per acre is determined by the spray equipment used. Use adequate spray volume to provide accurate and uniform distribution of spray particles over the treated area and to avoid spray drift.

Managing Spray Drift from Aerial Applications: Applicators must follow these requirements to avoid off-target drift movement: 1) boom length – the distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor, 2) nozzle orientation – nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees, and 3) application height – without compromising aircraft safety, applications should be made at a height of 10 feet or less above the crop canopy or tallest plants. Applicators must follow the most restrictive use cautions to avoid drift hazards, including those found in this labeling as well as applicable state and local regulations and ordinances.

Ground Application (Broadcast): Use 5 or more gallons of water per acre. The actual minimum spray volume per acre is determined by the spray equipment used. Use adequate spray volume to provide accurate and uniform distribution of spray particles over the treated area and to avoid spray drift.

WEEDS CONTROLLED

Alligare Imazapyr 4 SL provides postemergence control and some residual control of the following target weed species. The degree of control is both species and rate dependent. **Alligare Imazapyr 4 SL** should be used only in accordance with the recommendations on this label.

GRASSES:

The species of annual and perennial grasses controlled by **Alligare Imazapyr 4 SL** include the following:

Annual bluegrass (*Poa annua*)
Bahagrass (*Paspalum notatum*)
Barnyardgrass (*Echinochloa crus-galli*)
Beardgrass (*Andropogon* spp.)
Bermudagrass (*Cynodon dactylon*)¹
Big bluestem (*Andropogon gerardii*)
Broadleaf signalgrass (*Brachiaria platyphylla*)
Canada bluegrass (*Poa compressa*)
Cattail (*Typha* spp.)
Cheat (*Bromus secalinus*)
Cogongrass (*Imperata cylindrica*)²
Crabgrass (*Digitaria* spp.)
Crowfootgrass (*Dactyloctenium aegyptium*)
Dallisgrass (*Paspalum dilatatum*)
Downy brome (*Bromus tectorum*)
Fall panicum (*Panicum dichotomiflorum*)
Feathertop (*Pennisetum villosum*)
Fescue (*Festuca* spp.)
Foxtail (*Setaria* spp.)
Giant reed (*Arundo donax*)
Goosegrass (*Eleusine indica*)
Guineagrass (*Panicum maximum*)
Italian ryegrass (*Lolium multiflorum*)
Itchgrass (*Rottboellia exaltata*)
Johnsongrass (*Sorghum halepense*)¹
Junglerice (*Echinochloa colonum*)
Kentucky bluegrass (*Poa pratensis*)
Lovegrass (*Eragrostis* spp.)¹
Orchardgrass (*Dactylis glomerata*)
Panicum spp.
Paragrass (*Brachiaria mutica*)
Phragmites (*Phragmites australis*)
Prairie cordgrass (*Spartina pectinata*)
Prairie threeawn (*Aristida oligantha*)
Quackgrass (*Agropyron repens*)
Reed canarygrass (*Phalaris arundinacea*)
Saltgrass (*Distichlis stricta*)
Sand dropseed (*Sporobolus cryptandrus*)
Sandbur (*Cenchrus* spp.)
Smooth brome (*Bromus inermis*)
Sprangletop (*Leptochloa* spp.)
Timothy (*Phleum pratense*)
Torpedograss (*Panicum repens*)
Vaseygrass (*Paspalum urvillei*)
Wild barley (*Hordeum* spp.)
Wild oats (*Avena fatua*)

Wirestem muhly (*Muhlenbergia frondosa*)
Witchgrass (*Panicum capillare*)
Woolly cupgrass (*Eriochloa villosa*)

¹ Use higher labeled rates.

² Use minimum of 24 oz. per acre.

BROADLEAF WEEDS:

The species of annual and perennial broadleaf weeds controlled by **Alligare Imazapyr 4 SL** include the following:

Arrowwood (*Pluchea sericea*)
Broom snakeweed (*Gutierrezia sarothrae*)
Bull thistle (*Cirsium vulgare*)
Burclover (*Medicago* spp.)
Burdock (*Arctium* spp.)
Camphorweed (*Heterotheca subaxillaris*)
Canada thistle (*Cirsium arvense*)
Carolina geranium (*Geranium carolinianum*)
Carpetweed (*Mullugo verticillata*)
Chickweed, mouseear (*Cerastium vulgatum*)
Clover (*Trifolium* spp.)
Cocklebur (*Xanthium strumarium*)
Common chickweed (*Stellaria media*)
Common ragweed (*Ambrosia artemisiifolia*)
Cudweed (*Gnaphalium* spp.)
Dandelion (*Taraxacum officinale*)
Desert camelthorn (*Alhagi pseudalhagi*)
Diffuse knapweed (*Centaurea diffusa*)
Dock (*Rumex* spp.)
Dogfennel (*Eupatorium capillifolium*)
Fiddleneck (*Amsinckia intermedia*)
Filaree (*Erodium* spp.)
Fleabane (*Erigeron* spp.)
Giant ragweed (*Ambrosia trifida*)
Goldenrod (*Solidago* spp.)
Gray rabbitbrush (*Chrysothamnus nauseosus*)
Henbit (*Lamium applexicaule*)
Hoary vervain (*Verbena stricta*)
Horseweed (*Conyza canadensis*)
Indian mustard (*Brassica juncea*)
Japanese bamboo/knotweed (*Polygonum cuspidatum*)
Knotweed, prostrate (*Polygonum aviculare*)
Kochia (*Kochia scoparia*)
Lambsquarters (*Chenopodium album*)
Little mallow (*Malva parviflora*)
Milkweed (*Asclepias* spp.)
Miners lettuce (*Montia perfoliata*)
Mullein (*Verbascum* spp.)
Nettleleaf goosefoot (*Chenopodium murale*)
Oxeye daisy (*Chrysanthemum leucanthemum*)
Pepperweed (*Lepidium* spp.)
Pigweed (*Amaranthus* spp.)
Plantain (*Plantago* spp.)
Pokeweed (*Phytolacca americana*)
Primrose (*Oenothera kunthiana*)
Puncturevine (*Tribulus terrestris*)

Purple loosestrife (*Lythrum salicaria*)
Purslane (*Portulaca* spp.)
Pusley, Florida (*Richardia scabra*)
Rocket, London (*Sisymbrium irio*)
Rush skeletonweed (*Chondrilla juncea*)
Russian knapweed (*Centaurea repens*)
Russian thistle (*Salsola kali*)
Saltbush (*Atriplex* spp.)
Shepherd's purse (*Capsella bursa-pastoris*)
Silverleaf nightshade (*Solanum elaeagnifolium*)
Smartweed (*Polygonum* spp.)
Sorrell (*Rumex* spp.)
Sowthistle (*Sonchus* spp.)
Spurge, annual (*Euphorbia* spp.)
Stinging nettle (*Urtica dioica*)
Sunflower (*Helianthus* spp.)
Sweet clover (*Melilotus* spp.)
Tansymustard (*Descurainia pinnata*)
Texas thistle (*Cirsium texanum*)
Velvetleaf (*Abutilon theophrasti*)
Western ragweed (*Ambrosia psilostachya*)
Wild carrot (*Daucus carota*)
Wild lettuce (*Lactuca* spp.)
Wild parsnip (*Pastinaca sativa*)
Wild turnip (*Brassica campestris*)
Woollyleaf bursage (*Ambrosia grayi*)
Yellow starthistle (*Centaurea solstitialis*)
Yellow woodsorrel (*Oxalis stricta*)

VINES AND BRAMBLES:

The species of vines and brambles controlled by **Alligare Imazapyr 4 SL** include the following:

Field bindweed (*Convolvulus arvensis*)
Hedge bindweed (*Calystegia sepium*)
Honeysuckle (*Lonicera* spp.)
Morningglory (*Ipomoea* spp.)
Poison ivy (*Rhus radicans*)
Redvine (*Brunnichia cirrhosa*)
Trumpet creeper (*Campsis radicans*)
Virginia creeper (*Parthenocissus quinquefolia*)
Wild buckwheat (*Polygonum convolvulus*)
Wild grape (*Vitis* spp.)
Wild rose (*Rosa* spp.)¹
 Including: Multiflora rose (*Rosa multiflora*)
 Macartney rose (*Rosa bracteata*)

¹ Use higher labeled rates.

WOODY BRUSH AND TREES:

The species of woody brush and trees controlled by **Alligare Imazapyr 4 SL** include the following:

Alder (*Alnus* spp.)
American beech (*Fagus grandifolia*)
Ash (*Fraxinus* spp.)¹
Aspen (*Populus* spp.)
Autumn olive (*Elaeagnus umbellata*)
Bald cypress (*Taxodium distichum*)
Bigleaf Maple (*Acer macrophyllum*)²

Birch (*Betula* spp.)¹
 Black oak (*Quercus kelloggii*)
 Blackgum (*Nyssa sylvatica*)³
 Boxelder (*Acer negundo*)
 Brazilian peppertree (*Schinus terebinthifolius*)
 Ceanothus (*Ceanothus* spp.)
 Cherry (*Prunus* spp.)^{1,3}
 Chinaberry (*Melia azedarach*)
 Chinese tallow-tree (*Sapium sebiferum*)
 Chinquapin (*Castanopsis chrysophylla*)
 Cottonwood (*Populus trichocarpa* and *Populus deltoides*)
 Cypress (*Taxodium* spp.)
 Dogwood (*Cornus* spp.)¹
 Eucalyptus (*Eucalyptus* spp.)
 Hawthorn (*Crataegus* spp.)
 Hickory (*Carya* spp.)¹
 Huckleberry (*Gaylussacia* spp.)
Lyonia spp.
 Including: Fetterbush (*Lyonia lucida*)
 Staggerbush (*Lyonia mariana*)
 Madrone (*Arbutus menziesii*)
 Maple (*Acer* spp.)
 Melaleuca (*Melaleuca quinquenervia*)
 Mulberry (*Morus* spp.)^{1,4}
 Oak (*Quercus* spp.)⁵
 Persimmon (*Diospyros virginiana*)³
 Poison oak (*Rhus diversiloba*)
 Popcorn-tree (*Sapium sebiferum*)
 Poplar (*Populus* spp.)
 Privet (*Ligustrum vulgare*)
 Red Alder (*Alnus rubra*)
 Red Maple (*Acer rubrum*)
 Saltcedar (*Tamarix pentandra*)
 Sassafras (*Sassafras albidum*)
 Sourwood (*Oxydendrum arboreum*)³
 Sumac (*Rhus* spp.)
 Sweetgum (*Liquidambar styraciflua*)
 Sycamore (*Platanus occidentalis*)
 Tanoak (*Lithocarpus densiflorus*)¹
 TiTi (*Cyrilla racemiflora*)¹
 Tree of heaven (*Ailanthus altissima*)
Vaccinium spp.
 Including: Blueberry (*Vaccinium* spp.)
 Sparkleberry (*Vaccinium arboretum*)
 Willow (*Salix* spp.)
 Yellow poplar (*Liriodendron tulipifera*)

¹ Use higher labeled rates.

² Bigleaf Maple requires at least a 5% spray solution concentration.

³ Best control with applications prior to formation of fall leaf color.

⁴ The degree of control may be species dependent.

⁵ For Water oak (*Quercus nigra*), Laurel oak (*Q. lauriflora*), Willow oak (*Q. phellos*) and Live oak (*Q. virginiana*) use higher labeled rates.

MIXING AND APPLICATION INSTRUCTIONS

HELICOPTER EQUIPMENT:

Thoroughly mix the specified amount of **Alligare Imazapyr 4 SL** in 5 to 30 gallons of water per acre and apply uniformly with properly calibrated helicopter equipment. Use a nonionic surfactant to improve weed control. A drift control agent may be used at its recommended label rate. An anti-foam agent may be added, if needed. Exercise all precautions to minimize or eliminate spray drift. Avoid applications during windy or gusty conditions. Use of a Microfoil™ boom, Thru-Valve™ boom, raindrop nozzles, controlled droplet booms and nozzle configurations is recommended. Maintain adequate buffer zones to minimize potential impacts to desirable vegetation.

IMPORTANT: DO NOT make applications by fixed wing aircraft.

Thoroughly clean mixing and application equipment by thoroughly flushing with water immediately after using this product. Prolonged exposure of uncoated/unpainted steel (except stainless steel) surfaces to this product may result in corrosion and failure of the exposed part. Maintaining painted surfaces may prevent corrosion.

GROUND EQUIPMENT:

Thoroughly mix and apply the specified amount of **Alligare Imazapyr 4 SL** in 5 to 100 gallons of water per acre. Use a nonionic surfactant to enhance weed control. A drift control agent and an anti-foam agent may also be added at the recommended label rates, if needed. If desired, a spray pattern indicator may be used at the recommended label rate. To minimize spray drift, select proper nozzles to avoid spraying a fine mist, use pressures less than 50 psi and **DO NOT** spray under gusty or windy conditions (also refer to **SPRAY DRIFT MANAGEMENT** section). Maintain adequate buffer zones to minimize potential impacts to desirable vegetation.

For best results, apply the spray solution to uniformly cover the foliage of the undesirable vegetation to be controlled.

Clean mixing and application equipment immediately after using this product by thoroughly flushing with water.

DIRECTED FOLIAR OR SPOT SPRAY EQUIPMENT:

For directed or spot spray applications with helicopter, ground equipment or low-volume hand-operated spray equipment, thoroughly mix 1.0 to 5.0% **Alligare Imazapyr 4 SL** by volume (v/v) in water with at least 1/4% nonionic surfactant by volume, according to the table below.

MIXING GUIDE FOR ALLIGARE IMAZAPYR 4 SL

SOLUTION VOLUME	Alligare Imazapyr 4 SL CONCENTRATION (%)			NONIONIC SURFACTANT
	1.0	2.5	5.0	
1 gallon	1-1/3 oz.	3-1/3 oz.	6-2/3 oz.	1/3 oz.
5 gallons	6-2/3 oz.	1 pint	2 pints	1-2/3 oz.
10 gallons	13-1/3 oz.	2 pints	4 pints	3-1/3 oz.
25 gallons	2 pints	5 pints	10 pints	8 oz.
100 gallons	1 gal.	2.5 gal.	5 gal.	2 pints

2 tablespoons = 1 fluid ounce

For optimum performance and efficacy, apply spray to uniformly cover the target vegetation foliage. Direct spray to avoid contacting desirable conifers. Avoid direct application to desired plant species as injury may occur.

IMPORTANT: **DO NOT** over apply to cause run-off from treated foliage. **DO NOT** exceed specified dosage rate per acre.

STUMP AND CUT STEM TREATMENTS

Alligare Imazapyr 4 SL will control undesirable woody vegetation in forest management when applied as a water solution to the cambium area of freshly-cut stump surfaces or to cuts on the stem of the target woody vegetation. Applications can be made at any time of the year except during periods of heavy sap flow in the spring. Tree injection and cut stem treatments are most effective in late summer and early fall. **DO NOT** over-apply to cause run-off or puddling of spray solution.

MIXING:

Mix **Alligare Imazapyr 4 SL** as either a concentrate or dilute solution for stump and cut stem treatments. Apply dilute solutions to the surface of the stump or to cuts on the stem of the target woody vegetation. Apply concentrate solutions to cuts on the stem. Use of the concentrate solutions permits application to fewer cuts on the stem, especially for large diameter trees. Follow the application directions below to determine proper application techniques for each type of solution.

To prepare a dilute solution, mix 6 fluid ounces of **Alligare Imazapyr 4 SL** with one gallon of water. Except in the state of California, if temperatures are such that freezing of the spray mixture may occur, antifreeze (ethylene glycol) may be added according to manufacturer's label to prevent freezing. The use of a surfactant or penetrating agent may improve herbicide uptake through partially callused cambium tissue.

To prepare a concentrated solution, use undiluted **Alligare Imazapyr 4 SL** product or mix up to 75% water, by volume.

APPLICATION WITH DILUTE SOLUTIONS:

For cut stump treatments: Spray or brush the solution onto the cambium area of the freshly cut stump surface. Thoroughly wet the entire cambium area (the wood next to the bark of the stump).

For tree injection treatments: Using standard injection equipment, apply 1 milliliter of solution at each injection site around the tree with no more than one inch intervals between cut edges. Insure that the injector completely penetrates the bark at each injection site.

For frill or girdle treatments: Use a hatchet, machete or similar implement to make cuts through the bark around the tree at intervals no more than two inches between cut edges. Spray or brush **Alligare Imazapyr 4 SL** solution into each cut until thoroughly wet.

APPLICATION WITH CONCENTRATED SOLUTIONS:

For tree injection treatments: Using standard injection equipment, apply 1 milliliter of solution at each injection site. Make at least one injection cut for every three inches of Diameter at Breast Height (DBH) on the target tree. For example, a three inch DBH tree will receive 1 injection cut while a six inch DBH tree will receive 2 injection cuts. On trees requiring more than one injection site, place the injection cuts at approximately equal intervals around the tree.

For hack and squirt treatments: Use a hatchet, machete or similar implement to make cuts at a downward angle completely through the bark and cambium at approximately equal intervals around the tree. Make at least one cut for every 3 inches of DBH on the target tree as described above, using a squirt bottle, syringe, or similar device apply about 1 milliliter of concentrate solution into each cut, ensuring that the solution does not run out of the cut.

NOTE: Injury may occur to desirable woody plants if the shoots extend from the same root system or their root systems are grafted to those of the treated tree.

SITE PREPARATION TREATMENTS

Alligare Imazapyr 4 SL will control labeled grass and broadleaf weeds, vines, brambles, woody brush and trees on forest sites when applied before replanting the following conifer crop species:

Crop Species	Rate (fl oz./A)
Loblolly Pine (<i>Pinus taeda</i>)	24 – 40
Loblolly X Pitch Hybrid	24 – 40
Longleaf Pine (<i>Pinus palustris</i>)	24 – 40
Shortleaf Pine (<i>Pinus echinata</i>)	24 – 40
Virginia Pine (<i>Pinus virginiana</i>)	24 – 40
Slash Pine (<i>Pinus elliotii</i>)	20 – 32
Douglas-Fir (<i>Pseudotsuga menziesii</i>)	12 – 24
Coastal Redwood (<i>Sequoia sempervirens</i>)	12 – 24
Western Hemlock (<i>Tsuga heterophylla</i>)	12 – 24
California Red Fir (<i>Abies magnifica</i>)	12 – 20
California White Fir (<i>Abies concolor</i>)	12 – 20
Jack Pine (<i>Pinus banksiana</i>)	12 – 16
Lodgepole Pine (<i>Pinus contorta</i>)	12 – 16
Pitch Pine (<i>Pinus rigida</i>)	12 – 16
Ponderosa Pine (<i>Pinus ponderosa</i>)	12 – 16
Sugar Pine (<i>Pinus lambertiana</i>)	12 – 16
White Pine (<i>Pinus strobus</i>)	12 – 16
Black Spruce (<i>Picea mariana</i>)	12 – 16
Red Spruce (<i>Picea rubens</i>)	12 – 16
White Spruce (<i>Picea glauca</i>)	12 – 16

Apply the specified rate of **Alligare Imazapyr 4 SL** per acre as a broadcast foliar spray for long-term control of labeled woody plants and residual control of herbaceous annual and perennial weeds. Within 4 to 6 weeks of treatment, herbaceous weeds will be controlled and may provide fuel to facilitate a site preparation burn for controlling conifers or other species tolerant to the herbicide.

For helicopter applications, apply the specified rate of **Alligare Imazapyr 4 SL** per acre in 5 to 30 gallons total spray solution. For mechanical ground sprays and backpack applications, apply the specified rate of **Alligare Imazapyr 4 SL** per acre in 5 to 100 gallons total spray solution. Use at least 1/2% percent by volume nonionic surfactant. Use the higher label rates of **Alligare Imazapyr 4 SL** and higher spray volumes to control especially dense, multi-layered canopies of hardwood stands or difficult to control species.

Tank mixes may be necessary to control conifers and other species that are tolerant to **Alligare Imazapyr 4 SL**. Observe all precautions and restrictions on the tank mix partner label. Always follow the most restrictive label. NOTE that some other products labeled for forest site preparation may kill plants such as legumes and blackberry that are desirable for wildlife habitat.

Where quick initial brown out (deadening of foliage) is desired for burning, apply a tank mixture of 16 to 32 fluid oz. **Alligare Imazapyr 4 SL** plus 16 to 64 fluid oz. Accord® or 16 to 48 fluid oz. Garlon 4™ per acre. To control seedling pines, apply 16 to 32 fluid oz. **Alligare Imazapyr 4 SL** plus 3 to 4 quarts Accord®. For site preparation, rates less than 24 oz. **Alligare Imazapyr 4 SL** will provide suppression of hardwood brush and trees; however, some resprouting may occur.

DO NOT plant seedlings of Black Spruce (*Picea mariana*) or White Spruce (*Picea glauca*) on sites that have been broadcast treated with **Alligare Imazapyr 4 SL** or into the treated zone of spot or banded applications for at least three months after treatment or injury may occur.

HERBACEOUS WEED CONTROL

Use **Alligare Imazapyr 4 SL** for selective weed control in the following conifers:

Crop Species	Rate (fl. oz./A)
Loblolly Pine (<i>Pinus taeda</i>)	6 - 10
Loblolly X Pitch Hybrid	6 - 10
Virginia Pine (<i>Pinus virginiana</i>)	6 - 10
Longleaf Pine (<i>Pinus palustris</i>) ¹	4 - 6
Slash Pine (<i>Pinus elliottii</i>) ¹	4 - 6
Douglas-Fir (<i>Pseudotsuga menziesii</i>) ¹	4 - 6

¹ Use of surfactant is not recommended.

Alligare Imazapyr 4 SL may be broadcast, banded over tree rows or directed for release of young conifers from herbaceous weeds. To diminish the possibility of conifer injury, **DO NOT** apply **Alligare Imazapyr 4 SL** when conifers are under stress from drought, diseases, animal or winter injury, planting shock or other stresses that may reduce conifer vigor. Broadcast applications may be made by helicopter, ground or backpack sprayer. For best results, apply **Alligare Imazapyr 4 SL** to newly emerged weeds. Use the higher labeled rates for hard-to-control weeds. Where herbaceous weeds have over-topped conifer seedlings, add a nonionic surfactant at up to 1/4% of the spray solution volume to improve weed control (except for Slash Pine, Longleaf Pine, and Douglas-fir). Conifers in the treated area may exhibit minor growth inhibition, especially when treatments are applied during periods of active conifer growth.

Alligare Imazapyr 4 SL may also be applied by backpack or hand-held sprayers to control herbaceous weeds around individual conifer seedlings. Mix 0.4 to 0.6 fluid oz. **Alligare Imazapyr 4 SL** and 0.2 fluid oz. nonionic surfactant per gallon of water. Direct the spray to the weeds and minimize spray contact with conifer seedlings to avoid seedling damage. **DO NOT** exceed the maximum labeled rates listed above.

Alligare Imazapyr 4 SL can also be tank mixed with Oust® to broaden the weed control spectrum. For loblolly pine only, apply 4 to 6 fluid oz. **Alligare Imazapyr 4 SL** plus 1-2 fluid oz. Oust® (product) per acre. Application of **Alligare Imazapyr 4 SL** plus Oust® to other conifer species, however, may cause growth suppression.

CONIFER RELEASE TREATMENTS

Alligare Imazapyr 4 SL may be applied as a broadcast or directed spray to suppress the labeled brush, tree and herbaceous weed species. In conifer stands of all ages, use directed low-volume sprays onto unwanted vegetation and avoid direct contact to the conifers. **DO NOT** exceed the maximum labeled rates listed below.

Use broadcast applications of **Alligare Imazapyr 4 SL** for release of the following conifers from hardwood competition:

Crop Species	Rate (fl. oz./A)
Loblolly Pine (<i>Pinus taeda</i>) ³	12 - 20
Loblolly X Pitch Hybrid ³	12 - 20
Virginia Pine (<i>Pinus virginiana</i>) ^{3,4}	12 - 20
Longleaf Pine (<i>Pinus palustris</i>) ⁵	12 - 16
Pitch Pine (<i>Pinus rigida</i>)	12 - 16
Shortleaf Pine (<i>Pinus echinata</i>)	12 - 16
Slash Pine (<i>Pinus elliottii</i>) ⁵	12 - 16

Crop Species	Rate (fl. oz./A)
White Pine (<i>Pinus strobus</i>) ¹	8 - 16
California Red Fir (<i>Abies magnifica</i>)	8 - 12
California White Fir (<i>Abies concolor</i>)	8 - 12
Lodgepole Pine (<i>Pinus contorta</i>) ²	8 - 12
Douglas-Fir (<i>Pseudotsuga menziesii</i>) ⁴	8 - 12
Jack Pine (<i>Pinus banksiana</i>) ^{2,6}	6 - 12
Black Spruce (<i>Picea mariana</i>) ^{2,6}	6 - 12
Red Spruce (<i>Picea rubens</i>) ^{2,6}	6 - 12
White Spruce (<i>Picea glauca</i>) ^{2,6}	6 - 12

¹ **DO NOT** make applications to white pine stands younger than three years old. To minimize potential injury to White Pine, release treatments should not be made prior to July 15.

² Applications should be made after formation of final conifer resting buds in the fall or height growth inhibition may occur.

³ Mid-rotation release: For broadcast applications below the pine canopy in established stands of Loblolly Pine, Loblolly X pitch hybrid, and Virginia Pine use 16-32 oz. product per acre. For mid-rotation release of other species use rates listed above.

⁴ See specific directions below for release of Loblolly Pine seedlings during the first growing season.

⁵ See specific directions below for release of 2-to-5 year old Slash Pine and Longleaf Pine.

⁶ See specific directions below for use **ONLY** in Maine for release of Jack Pine, Black Spruce, Red Spruce and White Spruce.

Apply the specified rate of **Alligare Imazapyr 4 SL** per acre when applying broadcast sprays by helicopter or ground spray equipment. Refer to mixing and application instructions for proper spray volumes. A nonionic surfactant may be added but at no more than 1/4% by volume of the finished spray. Use the higher label rates of **Alligare Imazapyr 4 SL** when controlling especially dense stands or hard to control species.

Conifers may exhibit some minor growth inhibition when release treatments are made during periods of active conifer growth. To minimize potential growth inhibition, **DO NOT** make broadcast applications to conifer stands, except loblolly pine, before the end of the second growing season and, then, not until late in the growing season. To reduce the possibility of conifer injury, **DO NOT** apply **Alligare Imazapyr 4 SL** when conifers are under stress from drought, diseases, animal or winter injury, or other stresses that reduce conifer vigor.

For release of loblolly pine seedlings during the first growing season following planting or for one-year-old natural loblolly pine regeneration: For one-year-old loblolly pine release, apply 12-20 fluid oz./A **Alligare Imazapyr 4 SL** after July 15. Use rates below 16 fluid oz./A for growth suppression of hardwoods; however, some hardwood resprouting should be expected.

For release of 2-to-5 year old slash pine and longleaf pine from undesirable woody plants: Broadcast release treatments over the top of pines after August 15 and only in stands 2 to 5 years old. **DO NOT** add surfactant to the spray solution and use the lower labeled rates on areas with sandy soils.

For release of slash pine over 5 years old by aerial application: Apply **ONLY** after September 15 after height growth has stopped and buds have set. Use 12 to 14 fluid oz **Alligare Imazapyr 4 SL** per acre but only 12 fluid oz on areas with sandy soils. **DO NOT** add surfactant to the spray solution. **DO NOT** over apply by overlapping the spray pattern or dressing up around the edges of a tract. Since this treatment may cause some inhibition in height growth or terminal dieback, it should not be used if such affects are unacceptable.

For use ONLY in Maine for release of Jack Pine, Black Spruce, Red Spruce and White Spruce: For hardwood growth suppression, apply **Alligare Imazapyr 4 SL** at rates less than 6 fluid oz. per acre when tank mixed with glyphosate. Use a nonionic surfactant at rates greater than 0.25% v/v. The use of **Alligare Imazapyr 4 SL** with more than 0.25% v/v nonionic surfactant can result in conifer growth inhibition or mortality, and should not be used if this type of conifer injury is unacceptable.

The use of **Alligare Imazapyr 4 SL** rates below 6 oz./A are intended for hardwood brush growth suppression and hardwood brush resprouting should be expected.

For spot treatment of undesirable brush and hardwood vegetation: Apply **Alligare Imazapyr 4 SL** as a directed foliar or cut stem application in conifer stands of all ages for the conifer species listed above. Mix and apply as described above for directed foliar or cut stem applications. **DO NOT** exceed the maximum labeled rates listed above. Cut stem applications may be used for spot treatment of undesirable hardwoods in Ponderosa Pine stands using 12 oz. or less of product per acre.

Avoid direct spray contact to desired plant species as injury may occur. Injury may occur to non-target or desirable hardwoods or conifers if they extend from the same root system or their root systems are grafted to those of the treated tree or if their roots extend into the treated zone.

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: **DO NOT** store below 10°F.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying.

(Nonrefillable ≤ 5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(Nonrefillable > 5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

IMPORTANT: Read the entire **DIRECTIONS FOR USE** and the **CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY** before using this product. If terms are not acceptable, return the unopened product container at once.

CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

To the extent consistent with applicable law, upon purchase or use of this product, purchaser and user agree to the following terms:

Warranty: Alligare, LLC (the Company) warrants that this product conforms to the chemical description on the label in all material respects and is reasonably fit for the purpose referred to in the directions for use, subject to the exceptions noted below, which are beyond the Company's

control. To the extent consistent with applicable law, the Company makes no other representation or warranty, express or implied, concerning the product, including no implied warranty of merchantability or fitness for a particular purpose. No such warranty shall be implied by law, and no agent or representative is authorized to make any such warranty on the Company's behalf.

Terms of Sale: The Company's directions for use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, and the manner of use or application (including failure to adhere to label directions), all of which are beyond the Company's control. To the extent consistent with applicable law, all such risks are assumed by the user.

Limitation of Liability: To the extent consistent with applicable law, the exclusive remedy against the Company for any cause of action relating to the handling or use of this product is a claim for damages, and in no event shall damages or any other recovery of any kind exceed the price of the product which caused the alleged loss, damage, injury or other claim. To the extent consistent with applicable law, under no circumstances shall the Company be liable for any special, indirect, incidental or consequential damages of any kind, including loss of profits or income, and any such claims are hereby waived. Some states do not allow the exclusion or limitation of incidental or consequential damages.

The Company and the seller offer this product, and the purchaser and user accept this product, subject to the foregoing warranty, terms of sale and limitation of liability, which may be varied or modified only by an agreement in writing signed on behalf of the Company by an authorized representative.

Microfoil is a trademark of Rhone Poulenc Ag. Company.

Thru-Valve is a trademark of Waldrum Specialties.

Accord is a registered trademark of Monsanto Company

Oust is a registered trademark of E.I. DuPont de Nemours and Company.

Garlon is a trademark of Dow AgroSciences Company.

EPA 20081209

NOTIFICATION
DEC 24 2007
NOTIFICATION
DEC 30 2008

MATERIAL TO BE ADDED TO JACKET

10 A 42

REG #

81927-24

Description:

Final Printed Labeling

check all that apply	
<input type="checkbox"/>	new stamped accepted label
<input type="checkbox"/>	new CSF
<input type="checkbox"/>	notification

Send to CSC

Instructions:

Attach this sheet to the top of **ALL** material sent to the file room (both loose paper and new material in jackets). This sheet will be imaged; a clear description will aid in finding material in the e-jacket. Remove staples from all material. If returning loose paper then hold together with a binder or paper clip. CSFs should be placed in the CSF folder (if returning jacket) or covered with a red CBI sheet (if returning loose paper). Material to be returned to file room should be place in the appropriate bin.

Reviewer's

Name:

Tobi Colvin-Snyder

Date:

1-2-08

Phone:

703-305-7801

Division:

RD

PYXIS REGULATORY CONSULTING, INC.

4110 136th St. NW
Gig Harbor, WA 98332

Phone: 253-853-7369
Fax: 253-853-5516
www.PyxisRC.com

October 23, 2008

COURIER DELIVERY

Jim Tompkins (PM 25)
Document Processing Desk (FNL LBL)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

RE: Alligare, LLC – Alligare Imazapyr 4 SL (EPA Reg. No. 81927-24)
Submission of Final Product Labeling per the Agency Letter dated November 19, 2007

Dear Mr. Tompkins,

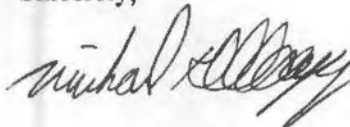
On behalf of Alligare, LLC and in response to the Agency letter dated November 19, 2007 enclosed please find final product labeling for Alligare Imazapyr 4 SL (EPA Reg. No. 81927-24).

In support of this submission, we submit the following documents:

1. Completed Application for Registration (EPA Form 8570-1)
2. One (1) copy of the Alligare Imazapyr 4 SL final product labeling
3. Letter of Authorization

Please feel free to contact me by phone (253) 853-7369 or by email at Mike@PyxisRC.com if you have any questions or need any additional information.

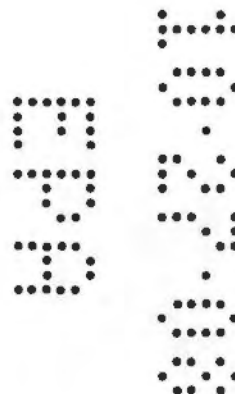
Sincerely,



Michael Kellogg

Enclosures

cc: Jay Golz; Alligare, LLC





United States
Environmental Protection Agency
Washington, DC 20460

☐ Registration
☐ Amendment
☒ Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 81927-24	2. EPA Product Manager J. Tompkins	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Alligare, LLC / Alligare Imazapyr 4 SL	PM# 25	
5. Name and Address of Applicant (Include ZIP Code) Alligare, LLC c/o Pyxis Regulatory Consulting, Inc. 4110 136th St. NW Gig Harbor, WA 98332 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated 11/19/2007
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Submission of final product labeling per the Agency letter dated November 19, 2007.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal	
				<input type="checkbox"/> Plastic	
				<input type="checkbox"/> Glass	
				<input type="checkbox"/> Paper	
* Certification must be submitted				Other (Specify) _____	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 2.5, 30 gallon		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Michael Kellogg		Title Agent	
		Telephone No. (Include Area Code) (253) 853-7369	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)
2. Signature 		3. Title Agent	
4. Typed Name Michael Kellogg		5. Date 10/23/08	



ALLIGARE

IMAZAPYR 4 SL

Alligare Imazapyr 4 SL controls undesirable vegetation in forestry use sites managed for timber production including forest roads, non-irrigation ditchbanks. It may also be applied in areas defined as puddles, potholes, berms of ditches, drainage ditches, intermittent drainage, intermittently flooded low lying sites, seasonally dry flood plains, and transitional areas between upland and lowland sites, except in the states of California and New York. **Alligare Imazapyr 4 SL** can be used to treat marshes, swamps and bogs after water has receded, as well as seasonally dry flood deltas, except in the states of California and New York.

ACTIVE INGREDIENT:

Isopropylamine salt of Imazapyr (2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid)* 52.6%

OTHER INGREDIENTS 47.4%

TOTAL 100.0%

*Equivalent to 42.9% 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid or 4 pounds acid per gallon.

EPA Reg. No. 81927-24

Letter(s) in lot number correspond(s) to superscript in EPA Est. No.

(ALB) EPA Est. No. 42750-MO-001 (BT) EPA Est. No. 37429-GA-001

(CSI) EPA Est. No. 53883-TX-002 (A) EPA Est. No. 11603-ISR-001

KEEP OUT OF REACH OF CHILDREN

CAUTION / PRECAUCION

PRECAUCION AL USUARIO: Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

FIRST AID	
If swallowed:	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• DO NOT induce vomiting unless told to do so by the poison control center or doctor.• DO NOT give anything by mouth to an unconscious person.
If in eyes:	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
If on skin or clothing:	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
If inhaled:	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.• Call a poison control center or doctor for further treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For medical emergencies involving this product, call 1-800-424-9300.	

See inside booklet for additional Precautionary Statements, Directions for Use and Storage and Disposal Instructions.

Manufactured for: Alligare, LLC
13 N. 8th Street • Opelika, AL 36801

EPA 20081020

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION! Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing and wash before reuse.

Personal Protective Equipment (PPE):

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA chemical-resistant category selection chart.

Applicators and other handlers must wear:

- Long-sleeve shirt and long pants.
- Chemical-resistant gloves made of any waterproof material.
- Shoes plus socks.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations:

Users Should:

- Wash hands before eating, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial uses, **DO NOT** apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. **DO NOT** contaminate water when disposing of equipment washwaters. This herbicide is phytotoxic at extremely low concentrations. Non-target plants may be adversely affected from drift.

PHYSICAL AND CHEMICAL HAZARDS

Spray solutions of **Alligare Imazapyr 4 SL** should be mixed, stored and applied only in stainless steel, fiberglass, plastic, and plastic-lined steel containers.

DO NOT mix, store or apply **Alligare Imazapyr 4 SL** or spray solutions of **Alligare Imazapyr 4 SL** in unlined steel (except stainless steel) containers or spray tanks.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Alligare Imazapyr 4 SL should be used only in accordance with recommendations on the booklet label. Keep containers closed to avoid spills and contamination.

Alligare Imazapyr 4 SL may be applied using helicopters, ground operated sprayers, low-volume hand-operated spray equipment such as back-pack and pump-up sprayers, and tree injection equipment.

Observe all cautions and limitations in the labels of products used in combination with **Alligare Imazapyr 4 SL**.

GENERAL INFORMATION

Alligare Imazapyr 4 SL is an aqueous solution intended to be mixed in water and surfactants(s) for control of undesirable vegetation in forestry sites managed for timber production. It can be used along forestry roads, for site preparation and for conifer release from woody and herbaceous competition. **Alligare Imazapyr 4 SL** may also be used for stump and cut-stem treatment for control of unwanted woody vegetation.

Alligare Imazapyr 4 SL may be applied to forestry areas, drainage ditches, intermittent drainage, intermittently flooded low lying sites, seasonally dry flood plains, and transitional areas between upland and lowland sites, **except in the states of California and New York**. Only the edge of drainage ditches that contain water can be treated. **Alligare Imazapyr 4 SL** can also be used to treat marshes, swamps and bogs after water has receded, as well as seasonally dry flood deltas, **except in the states of California and New York**.

Alligare Imazapyr 4 SL also controls undesirable vegetation along non-irrigation ditchbanks and can be used for establishing and maintaining wildlife openings, except in the state of California. See use directions for stump and cut stem treatments and herbaceous weed control.

DO NOT apply to natural or manmade bodies of water such as lakes, reservoirs, ponds, streams, rivers and canals.

When applied postemergence to weeds, **Alligare Imazapyr 4 SL** will control most annual and perennial grasses and broadleaf weeds in addition to many brush and vine species. **Alligare Imazapyr 4 SL** will provide residual control of labeled weeds which germinate in the treated areas. Postemergence application with a surfactant is the method of choice in most situations, particularly for perennial weeds. For maximum affect, weeds should be growing vigorously at postemergence application and the spray solution should include a surfactant. **Alligare Imazapyr 4 SL** solutions may be broadcast by using ground or aerial equipment, or may be applied as a spot treatment by using low-volume techniques. In addition, **Alligare Imazapyr 4 SL** may be used for stump and cut stem treatments.

Alligare Imazapyr 4 SL controls vegetation by absorption through foliage and roots, from which it is translocated rapidly throughout the plant, where it accumulates in rapidly-growing meristematic tissue. Treated plants stop growing soon after spray treatment. Chlorosis (yellowing of plant tissue) first appears in the newest leaves and necrosis spreads from this point. In perennials, **Alligare Imazapyr 4 SL** is translocated into and kills the roots and underground storage tissues to prevent most regrowth. Chlorosis and tissue necrosis may not be apparent in some plant species for several weeks after application and may take months for various woody plants, brush and trees.

IMPORTANT.....

DO NOT use on food or feed crops. **DO NOT** use on Christmas trees. **DO NOT** treat irrigation ditches or water used for irrigation of crops or

for domestic purposes. Keep away from fertilizers, insecticides, fungicides and seeds. **DO NOT** drain or flush equipment on or near desirable plants, or onto areas where their roots may extend, or in locations where the chemical may be washed or moved within their dripline. **DO NOT** side trim desirable vegetation with this product. Exercise precautions to prevent spray drift onto desirable plants.

Clean application equipment immediately after using this product by thoroughly flushing with water.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. The requirements in this box apply to use on trees being grown for sale or other commercial use, or for commercial seed production, or for production of timber or wood products, or for research purposes.

DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of **12 hours**.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls.
- Shoes plus socks.
- Chemical-resistant gloves made of any waterproof material.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are **NOT** within the scope of the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter treated areas until sprays have dried.

SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

Spray drift from applying this product may damage sensitive plants adjacent to the treatment area. Only apply this product when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, or non-target crops) is minimal. **DO NOT** apply when the following conditions exist that increase the likelihood of spray drift from intended targets: high or gusty winds, high temperatures, low humidity, temperature inversions.

The best drift management strategy and most effective way to reduce drift potential are to apply large droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see **WIND, TEMPERATURE AND HUMIDITY AND TEMPERATURE INVERSIONS**).

Controlling Droplet Size:

- **Volume** – Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** – **DO NOT** exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of Nozzles** – use the minimum number of nozzles that provide uniform coverage.
- **Nozzle Orientation** – Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is recommended practice. Significant deflection from the horizontal will reduce droplet size and increase drift potential.
- **Nozzle Type** – Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift. **DO NOT** use nozzles producing a mist droplet spray.

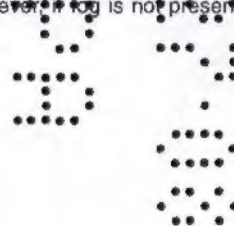
Application Height: Making applications at the lowest possible height (aircraft, ground driven spray boom) that is safe and practical reduces exposure of droplets to evaporation and wind.

Swath Adjustment: When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the application equipment (e.g. aircraft, ground) upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller droplets, etc.).

Wind: Drift potential is lowest between wind speeds of 3-10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential. **NOTE:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity: When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions: Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud, which can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if no fog is present, inver-



sions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Wind Erosion: Avoid treating powdery dry or light sandy soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.

Aerial Application Methods and Equipment: Use 2 or more gallons of water per acre. The actual minimum spray volume per acre is determined by the spray equipment used. Use adequate spray volume to provide accurate and uniform distribution of spray particles over the treated area and to avoid spray drift.

Managing Spray Drift from Aerial Applications: Applicators must follow these requirements to avoid off-target drift movement: 1) boom length – the distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor, 2) nozzle orientation – nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees, and 3) application height – without compromising aircraft safety, applications should be made at a height of 10 feet or less above the crop canopy or tallest plants. Applicators must follow the most restrictive use cautions to avoid drift hazards, including those found in this labeling as well as applicable state and local regulations and ordinances.

Ground Application (Broadcast): Use 5 or more gallons of water per acre. The actual minimum spray volume per acre is determined by the spray equipment used. Use adequate spray volume to provide accurate and uniform distribution of spray particles over the treated area and to avoid spray drift.

WEEDS CONTROLLED

Alligare Imazapyr 4 SL provides postemergence control and some residual control of the following target weed species. The degree of control is both species and rate dependent. **Alligare Imazapyr 4 SL** should be used only in accordance with the recommendations on this label.

GRASSES:

The species of annual and perennial grasses controlled by **Alligare Imazapyr 4 SL** include the following:

Annual bluegrass (*Poa annua*)
Bahagrass (*Paspalum notatum*)
Barnyardgrass (*Echinochloa crus-galli*)
Beardgrass (*Andropogon* spp.)
Bermudagrass (*Cynodon dactylon*)¹
Big bluestem (*Andropogon gerardii*)
Broadleaf signalgrass (*Brachiaria platyphylla*)
Canada bluegrass (*Poa compressa*)
Cattail (*Typha* spp.)
Cheat (*Bromus secalinus*)
Cogongrass (*Imperata cylindrica*)²
Crabgrass (*Digitaria* spp.)
Crowfootgrass (*Dactyloctenium aegyptium*)
Dallisgrass (*Paspalum dilatatum*)
Downy brome (*Bromus tectorum*)
Fall panicum (*Panicum dichotomiflorum*)
Feathertop (*Pennisetum villosum*)

Fescue (*Festuca* spp.)
Foxtail (*Setaria* spp.)
Giant reed (*Arundo donax*)
Goosegrass (*Eleusine indica*)
Guineagrass (*Panicum maximum*)
Italian ryegrass (*Lolium multiflorum*)
Itchgrass (*Rottboellia exaltata*)
Johnsongrass (*Sorghum halepense*)¹
Junglerice (*Echinochloa colonum*)
Kentucky bluegrass (*Poa pratensis*)
Lovegrass (*Eragrostis* spp.)¹
Orchardgrass (*Dactylis glomerata*)
Panicum spp.
Paragrass (*Brachiaria mutica*)
Phragmites (*Phragmites australis*)
Prairie cordgrass (*Spartina pectinata*)
Prairie threeawn (*Aristida oligantha*)
Quackgrass (*Agropyron repens*)
Reed canarygrass (*Phalaris arundinacea*)
Saltgrass (*Distichlis stricta*)
Sand dropseed (*Sporobolus cryptandrus*)
Sandbur (*Cenchrus* spp.)
Smooth brome (*Bromus inermis*)
Sprangletop (*Leptochloa* spp.)
Timothy (*Phleum pratense*)
Torpedograss (*Panicum repens*)
Vaseygrass (*Paspalum urvillei*)
Wild barley (*Hordeum* spp.)
Wild oats (*Avena fatua*)
Wirestem muhly (*Muhlenbergia frondosa*)
Witchgrass (*Panicum capillare*)
Woolly cupgrass (*Eriochloa villosa*)

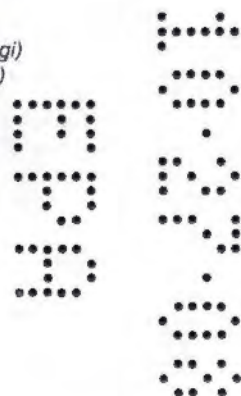
¹ Use higher labeled rates.

² Use minimum of 24 oz. per acre.

BROADLEAF WEEDS:

The species of annual and perennial broadleaf weeds controlled by **Alligare Imazapyr 4 SL** include the following:

Arrowwood (*Pluchea sericea*)
Broom snakeweed (*Gutierrezia sarothrae*)
Bull thistle (*Cirsium vulgare*)
Burdock (*Arctium* spp.)
Camphorweed (*Heterotheca subaxillaris*)
Canada thistle (*Cirsium arvense*)
Carolina geranium (*Geranium carolinianum*)
Carpetweed (*Mullugo verticillata*)
Chickweed, mouseear (*Cerastium vulgatum*)
Clover (*Trifolium* spp.)
Cocklebur (*Xanthium strumarium*)
Common chickweed (*Stellaria media*)
Common ragweed (*Ambrosia artemisiifolia*)
Cudweed (*Gnaphalium* spp.)
Dandelion (*Taraxacum officinale*)
Desert camelthorn (*Alhagi pseudalhagi*)
Diffuse knapweed (*Centaurea diffusa*)
Dock (*Rumex* spp.)
Dogfennel (*Eupatorium capillifolium*)
Fiddleneck (*Amsinckia intermedia*)
Filaree (*Erodium* spp.)



Fleabane (*Erigeron* spp.)
 Giant ragweed (*Ambrosia trifida*)
 Goldenrod (*Solidago* spp.)
 Gray rabbitbrush (*Chrysothamnus nauseosus*)
 Henbit (*Lamium alexicaule*)
 Hoary vervain (*Verbena stricta*)
 Horsetweed (*Coryza canadensis*)
 Indian mustard (*Brassica juncea*)
 Japanese bamboo/knotweed (*Polygonum cuspidatum*)
 Knotweed, prostrate (*Polygonum aviculare*)
 Kochia (*Kochia scoparia*)
 Lambsquarters (*Chenopodium album*)
 Little mallow (*Malva parviflora*)
 Milkweed (*Asclepias* spp.)
 Miners lettuce (*Montia perfoliata*)
 Mullein (*Verbascum* spp.)
 Nettleleaf goosefoot (*Chenopodium murale*)
 Oxeye daisy (*Chrysanthemum leucanthemum*)
 Pepperweed (*Lepidium* spp.)
 Pigweed (*Amaranthus* spp.)
 Plantain (*Plantago* spp.)
 Pokeweed (*Phytolacca americana*)
 Primrose (*Oenothera kunthiana*)
 Puncturevine (*Tribulus terrestris*)
 Purple loosestrife (*Lythrum salicaria*)
 Purslane (*Portulaca* spp.)
 Pusley, Florida (*Richardia scabra*)
 Rocket, London (*Sisymbrium irio*)
 Rush skeletonweed (*Chondrilla juncea*)
 Russian knapweed (*Centaurea repens*)
 Russian thistle (*Salsola kali*)
 Saltbush (*Atriplex* spp.)
 Shepherd's purse (*Capsella bursa-pastoris*)
 Silverleaf nightshade (*Solanum elaeagnifolium*)
 Smartweed (*Polygonum* spp.)
 Sorrell (*Rumex* spp.)
 Sowthistle (*Sonchus* spp.)
 Spurge, annual (*Euphorbia* spp.)
 Stinging nettle (*Urtica dioica*)
 Sunflower (*Helianthus* spp.)
 Sweet clover (*Melilotus* spp.)
 Tansymustard (*Descurainia pinnata*)
 Texas thistle (*Cirsium texanum*)
 Velvetleaf (*Abutilon theophrasti*)
 Western ragweed (*Ambrosia psilostachya*)
 Wild carrot (*Daucus carota*)
 Wild lettuce (*Lactuca* spp.)
 Wild parsnip (*Pastinaca sativa*)
 Wild turnip (*Brassica campestris*)
 Woollyleaf bursage (*Ambrosia grayi*)
 Yellow starthistle (*Centaurea solstitialis*)
 Yellow woodsorrel (*Oxalis stricta*)

VINES AND BRAMBLES:

The species of vines and brambles controlled by **Alligare Imazapyr 4 SL** include the following:

Field bindweed (*Convolvulus arvensis*)
 Hedge bindweed (*Calystegia sepium*)
 Honeysuckle (*Lonicera* spp.)
 Morningglory (*Ipomoea* spp.)

Poison ivy (*Rhus radicans*)
 Redvine (*Brunnichia cirrhosa*)
 Trumpet creeper (*Campsis radicans*)
 Virginia creeper (*Parthenocissus quinquefolia*)
 Wild buckwheat (*Polygonum convolvulus*)
 Wild grape (*Vitis* spp.)
 Wild rose (*Rosa* spp.)¹
 Including: Multiflora rose (*Rosa multiflora*)
 Macartney rose (*Rosa bracteata*)

¹ Use higher labeled rates.

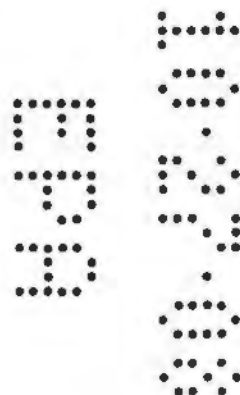
WOODY BRUSH AND TREES:

The species of woody brush and trees controlled by **Alligare Imazapyr 4 SL** include the following:

Alder (*Alnus* spp.)
 American beech (*Fagus grandifolia*)
 Ash (*Fraxinus* spp.)¹
 Aspen (*Populus* spp.)
 Autumn olive (*Elaeagnus umbellata*)
 Bald cypress (*Taxodium distichum*)
 Bigleaf Maple (*Acer macrophyllum*)²
 Birch (*Betula* spp.)¹
 Black oak (*Quercus kelloggii*)
 Blackgum (*Nyssa sylvatica*)¹
 Boxelder (*Acer negundo*)
 Brazilian peppertree (*Schinus terebinthifolius*)
 Ceanothus (*Ceanothus* spp.)
 Cherry (*Prunus* spp.)^{1,3}
 Chinaberry (*Melia azedarach*)
 Chinese tallow-tree (*Sapium sebiferum*)
 Chinquapin (*Castanopsis chrysophylla*)
 Cottonwood (*Populus trichocarpa* and *Populus deltoides*)
 Cypress (*Taxodium* spp.)
 Dogwood (*Cornus* spp.)¹
 Eucalyptus (*Eucalyptus* spp.)
 Hawthorn (*Crataegus* spp.)
 Hickory (*Carya* spp.)¹
 Huckleberry (*Gaylussacia* spp.)
 Lyonia spp.

Including: Fetterbush (*Lyonia lucida*)
 Staggerbush (*Lyonia mariana*)

Madrone (*Arbutus menziesii*)
 Maple (*Acer* spp.)
 Melaleuca (*Melaleuca quinquenervia*)
 Mulberry (*Morus* spp.)^{1,4}
 Oak (*Quercus* spp.)⁵
 Persimmon (*Diospyros virginiana*)⁶
 Poison oak (*Rhus diversiloba*)
 Popcorn-tree (*Sapium sebiferum*)
 Poplar (*Populus* spp.)
 Privet (*Ligustrum vulgare*)
 Red Alder (*Alnus rubra*)
 Red Maple (*Acer rubrum*)
 Saltcedar (*Tamarix pentandra*)
 Sassafras (*Sassafras albidum*)
 Sourwood (*Oxydendrum arboreum*)⁷
 Sumac (*Rhus* spp.)
 Sweetgum (*Liquidambar styraciflua*)
 Sycamore (*Platanus occidentalis*)
 Tanoak (*Lithocarpus densiflorus*)¹



Titi (*Cyrilla racemiflora*)¹

Tree of heaven (*Ailanthus altissima*)

Vaccinium spp.

Including: Blueberry (*Vaccinium* spp.)

Sparkleberry (*Vaccinium arboreum*)

Willow (*Salix* spp.)

Yellow poplar (*Liriodendron tulipifera*)

¹ Use higher labeled rates.

² Bigleaf Maple requires at least a 5% spray solution concentration.

³ Best control with applications prior to formation of fall leaf color.

⁴ The degree of control may be species dependent.

⁵ For Water oak (*Quercus nigra*), Laurel oak (*Q. laurifolia*), Willow oak (*Q. phellos*) and Live oak (*Q. virginiana*) use higher labeled rates.

MIXING AND APPLICATION INSTRUCTIONS

HELICOPTER EQUIPMENT:

Thoroughly mix the specified amount of **Alligare Imazapyr 4 SL** in 5 to 30 gallons of water per acre and apply uniformly with properly calibrated helicopter equipment. Use a nonionic surfactant to improve weed control. A drift control agent may be used at its recommended label rate. An anti-foam agent may be added, if needed. Exercise all precautions to minimize or eliminate spray drift. Avoid applications during windy or gusty conditions. Use of a Microfoil™ boom, Thru-Valve™ boom, raindrop nozzles, controlled droplet booms and nozzle configurations is recommended. Maintain adequate buffer zones to minimize potential impacts to desirable vegetation.

IMPORTANT: DO NOT make applications by fixed wing aircraft.

Thoroughly clean mixing and application equipment by thoroughly flushing with water immediately after using this product. Prolonged exposure of uncoated/unpainted steel (except stainless steel) surfaces to this product may result in corrosion and failure of the exposed part. Maintaining painted surfaces may prevent corrosion.

GROUND EQUIPMENT:

Thoroughly mix and apply the specified amount of **Alligare Imazapyr 4 SL** in 5 to 100 gallons of water per acre. Use a nonionic surfactant to enhance weed control. A drift control agent and an anti-foam agent may also be added at the recommended label rates, if needed. If desired, a spray pattern indicator may be used at the recommended label rate. To minimize spray drift, select proper nozzles to avoid spraying a fine mist, use pressures less than 50 psi and **DO NOT** spray under gusty or windy conditions (also refer to **SPRAY DRIFT MANAGEMENT** section). Maintain adequate buffer zones to minimize potential impacts to desirable vegetation.

For best results, apply the spray solution to uniformly cover the foliage of the undesirable vegetation to be controlled.

Clean mixing and application equipment immediately after using this product by thoroughly flushing with water.

DIRECTED FOLIAR OR SPOT SPRAY EQUIPMENT:

For directed or spot spray applications with helicopter, ground equipment or low-volume hand-operated spray equipment, thoroughly mix 1.0 to 5.0% **Alligare Imazapyr 4 SL** by volume (v/v) in water with at least 1/4% nonionic surfactant by volume, according to the table below.

MIXING GUIDE FOR ALLIGARE IMAZAPYR 4 SL

SOLUTION VOLUME	Alligare Imazapyr 4 SL CONCENTRATION (%)			NONIONIC SURFACTANT
	1.0	2.5	5.0	
1 gallon	1-1/3 oz.	3-1/3 oz.	6-2/3 oz.	1/3 oz.
5 gallons	6-2/3 oz.	1 pint	2 pints	1-2/3 oz.
10 gallons	13-1/3 oz.	2 pints	4 pints	3-1/3 oz.
25 gallons	2 pints	5 pints	10 pints	8 oz.
100 gallons	1 gal.	2.5 gal.	5 gal.	2 pints

2 tablespoons = 1 fluid ounce

For optimum performance and efficacy, apply spray to uniformly cover the target vegetation foliage. Direct spray to avoid contacting desirable conifers. Avoid direct application to desired plant species as injury may occur.

IMPORTANT: DO NOT over apply to cause run-off from treated foliage. **DO NOT** exceed specified dosage rate per acre.

STUMP AND CUT STEM TREATMENTS

Alligare Imazapyr 4 SL will control undesirable woody vegetation in forest management when applied as a water solution to the cambium area of freshly-cut stump surfaces or to cuts on the stem of the target woody vegetation. Applications can be made at any time of the year except during periods of heavy sap flow in the spring. Tree injection and cut stem treatments are most effective in late summer and early fall. **DO NOT** over-apply to cause run-off or puddling of spray solution.

MIXING:

Mix **Alligare Imazapyr 4 SL** as either a concentrate or dilute solution for stump and cut stem treatments. Apply dilute solutions to the surface of the stump or to cuts on the stem of the target woody vegetation. Apply concentrate solutions to cuts on the stem. Use of the concentrate solutions permits application to fewer cuts on the stem, especially for large diameter trees. Follow the application directions below to determine proper application techniques for each type of solution.

To prepare a dilute solution, mix 6 fluid ounces of **Alligare Imazapyr 4 SL** with one gallon of water. If temperatures are such that freezing of the spray mixture may occur, antifreeze (ethylene glycol) may be added according to manufacturer's label to prevent freezing. The use of a surfactant or penetrating agent may improve herbicide uptake through partially callused cambium tissue.

To prepare a concentrated solution, use undiluted **Alligare Imazapyr 4 SL** product or up to 75% water, by volume.

APPLICATION WITH DILUTE SOLUTIONS:

For cut stump treatments: Spray or brush the solution onto the cambium area of the freshly cut stump surface. Thoroughly wet the entire cambium area (the wood next to the bark of the stump).

For tree injection treatments: Using standard injection equipment, apply 1 milliliter of solution at each injection site around the tree with no more than one inch intervals between cut edges. Ensure that the injector completely penetrates the bark at each injection site.

For frill or girdle treatments: Use a chainsaw, machete or similar

implement to make cuts through the bark around the tree at intervals no more than two inches between cut edges. Spray or brush **Alligare Imazapyr 4 SL** solution into each cut until thoroughly wet.

APPLICATION WITH CONCENTRATED SOLUTIONS:

For tree injection treatments: Using standard injection equipment, apply 1 milliliter of solution at each injection site. Make at least one injection cut for every three inches of Diameter at Breast Height (DBH) on the target tree. For example, a three inch DBH tree will receive 1 injection cut while a six inch DBH tree will receive 2 injection cuts. On trees requiring more than one injection site, place the injection cuts at approximately equal intervals around the tree.

For hack and squirt treatments: Use a hatchet, machete or similar implement to make cuts at a downward angle completely through the bark and cambium at approximately equal intervals around the tree. Make at least one cut for every 3 inches of DBH on the target tree as described above, using a squirt bottle, syringe, or similar device apply about 1 milliliter of concentrate solution into each cut, ensuring that the solution does not run out of the cut.

NOTE: Injury may occur to desirable woody plants if the shoots extend from the same root system or their root systems are grafted to those of the treated tree.

SITE PREPARATION TREATMENTS

Alligare Imazapyr 4 SL will control labeled grass and broadleaf weeds, vines, brambles, woody brush and trees on forest sites when applied before replanting the following conifer crop species:

Crop Species	Rate (fl oz./A)
Loblolly Pine (<i>Pinus taeda</i>)	24 - 40
Loblolly X Pitch Hybrid	24 - 40
Longleaf Pine (<i>Pinus palustris</i>)	24 - 40
Shortleaf Pine (<i>Pinus echinata</i>)	24 - 40
Virginia Pine (<i>Pinus virginiana</i>)	24 - 40
Slash Pine (<i>Pinus elliottii</i>)	20 - 32
Douglas-Fir (<i>Pseudotsuga menziesii</i>)	12 - 24
Coastal Redwood (<i>Sequoia sempervirens</i>)	12 - 24
Western Hemlock (<i>Tsuga heterophylla</i>)	12 - 24
California Red Fir (<i>Abies magnifica</i>)	12 - 20
California White Fir (<i>Abies concolor</i>)	12 - 20
Jack Pine (<i>Pinus banksiana</i>)	12 - 16
Lodgepole Pine (<i>Pinus contorta</i>)	12 - 16
Pitch Pine (<i>Pinus rigida</i>)	12 - 16
Ponderosa Pine (<i>Pinus ponderosa</i>)	12 - 16
Sugar Pine (<i>Pinus lambertiana</i>)	12 - 16
White Pine (<i>Pinus strobus</i>)	12 - 16
Black Spruce (<i>Picea mariana</i>)	12 - 16
Red Spruce (<i>Picea rubens</i>)	12 - 16
White Spruce (<i>Picea glauca</i>)	12 - 16

Apply the specified rate of **Alligare Imazapyr 4 SL** per acre as a broadcast foliar spray for long-term control of labeled woody plants and residual control of herbaceous annual and perennial weeds. Within 4

to 6 weeks of treatment, herbaceous weeds will be controlled and may provide fuel to facilitate a site preparation burn for controlling conifers or other species tolerant to the herbicide.

For helicopter applications, apply the specified rate of **Alligare Imazapyr 4 SL** per acre in 5 to 30 gallons total spray solution. For mechanical ground sprays and backpack applications, apply the specified rate of **Alligare Imazapyr 4 SL** per acre in 5 to 100 gallons total spray solution. Use at least 1/2% percent by volume nonionic surfactant. Use the higher label rates of **Alligare Imazapyr 4 SL** and higher spray volumes to control especially dense, multi-layered canopies of hardwood stands or difficult to control species.

Tank mixes may be necessary to control conifers and other species that are tolerant to **Alligare Imazapyr 4 SL**. Observe all precautions and restrictions on the tank mix partner label. Always follow the most restrictive label. NOTE that some other products labeled for forest site preparation may kill plants such as legumes and blackberry that are desirable for wildlife habitat.

Where quick initial brown out (deadening of foliage) is desired for burning, apply a tank mixture of 16 to 32 fluid oz. **Alligare Imazapyr 4 SL** plus 16 to 64 fluid oz. Accord® or 16 to 48 fluid oz. Garlon 4™ per acre. To control seedling pines, apply 16 to 32 fluid oz. **Alligare Imazapyr 4 SL** plus 3 to 4 quarts Accord®. For site preparation, rates less than 24 oz. **Alligare Imazapyr 4 SL** will provide suppression of hardwood brush and trees; however, some resprouting may occur.

DO NOT plant seedlings of Black Spruce (*Picea mariana*) or White Spruce (*Picea glauca*) on sites that have been broadcast treated with **Alligare Imazapyr 4 SL** or into the treated zone of spot or banded applications for at least three months after treatment or injury may occur.

HERBACEOUS WEED CONTROL

Use **Alligare Imazapyr 4 SL** for selective weed control in the following conifers:

Crop Species	Rate (fl. oz./A)
Loblolly Pine (<i>Pinus taeda</i>)	6 - 10
Loblolly X Pitch Hybrid	6 - 10
Virginia Pine (<i>Pinus virginiana</i>)	6 - 10
Longleaf Pine (<i>Pinus palustris</i>) ¹	4 - 6
Slash Pine (<i>Pinus elliottii</i>) ¹	4 - 6
Douglas-Fir (<i>Pseudotsuga menziesii</i>) ¹	4 - 6

¹ Use of surfactant is not recommended.

Alligare Imazapyr 4 SL may be broadcast, banded over tree rows or directed for release of young conifers from herbaceous weeds. To diminish the possibility of conifer injury, **DO NOT** apply **Alligare Imazapyr 4 SL** when conifers are under stress from drought, diseases, animal or winter injury, planting shock or other stresses that may reduce conifer vigor. Broadcast applications may be made by helicopter, ground or backpack sprayer. For best results, apply **Alligare Imazapyr 4 SL** to newly emerged weeds. Use the higher labeled rates for hard-to-control weeds. Where herbaceous weeds have over-topped conifer seedlings, add a nonionic surfactant at up to 1/4% of the spray solution volume to improve weed control (except for Slash Pine,

Longleaf Pine, and Douglas-fir). Conifers in the treated area may exhibit minor growth inhibition, especially when treatments are applied during periods of active conifer growth.

Alligare Imazapyr 4 SL may also be applied by backpack or hand-held sprayers to control herbaceous weeds around individual conifer seedlings. Mix 0.4 to 0.6 fluid oz. **Alligare Imazapyr 4 SL** and 0.2 fluid oz. nonionic surfactant per gallon of water. Direct the spray to the weeds and minimize spray contact with conifer seedlings to avoid seedling damage. **DO NOT** exceed the maximum labeled rates listed above.

Alligare Imazapyr 4 SL can also be tank mixed with Oust® to broaden the weed control spectrum. For loblolly pine only, apply 4 to 6 fluid oz. **Alligare Imazapyr 4 SL** plus 1-2 fluid oz. Oust® (product) per acre. Application of **Alligare Imazapyr 4 SL** plus Oust® to other conifer species, however, may cause growth suppression.

CONIFER RELEASE TREATMENTS

Alligare Imazapyr 4 SL may be applied as a broadcast or directed spray to suppress the labeled brush, tree and herbaceous weed species. In conifer stands of all ages, use directed low-volume sprays onto unwanted vegetation and avoid direct contact to the conifers. **DO NOT** exceed the maximum labeled rates listed below.

Use broadcast applications of **Alligare Imazapyr 4 SL** for release of the following conifers from hardwood competition:

Crop Species	Rate (fl. oz./A)
Loblolly Pine (<i>Pinus taeda</i>) ²	12 - 20
Loblolly X Pitch Hybrid ³	12 - 20
Virginia Pine (<i>Pinus virginiana</i>) ^{2,4}	12 - 20
Longleaf Pine (<i>Pinus palustris</i>) ⁵	12 - 16
Pitch Pine (<i>Pinus rigida</i>)	12 - 16
Shortleaf Pine (<i>Pinus echinata</i>)	12 - 16
Slash Pine (<i>Pinus elliottii</i>) ⁵	12 - 16
White Pine (<i>Pinus strobus</i>) ¹	8 - 16
California Red Fir (<i>Abies magnifica</i>)	8 - 12
California White Fir (<i>Abies concolor</i>)	8 - 12
Lodgepole Pine (<i>Pinus contorta</i>) ²	8 - 12
Douglas-Fir (<i>Pseudotsuga menziesii</i>) ²	8 - 12
Jack Pine (<i>Pinus banksiana</i>) ^{2,6}	6 - 12
Black Spruce (<i>Picea mariana</i>) ^{2,6}	6 - 12
Red Spruce (<i>Picea rubens</i>) ^{2,6}	6 - 12
White Spruce (<i>Picea glauca</i>) ^{2,6}	6 - 12

¹ **DO NOT** make applications to white pine stands younger than three years old. To minimize potential injury to White Pine, release treatments should not be made prior to July 15.

² Applications should be made after formation of final conifer resting buds in the fall or height growth inhibition may occur.

³ Mid-rotation release: For broadcast applications below the pine canopy in established stands of Loblolly Pine, Loblolly X pitch hybrid, and Virginia Pine use 16-32 oz. product per acre. For mid-rotation release of other species use rates listed above.

⁴ See specific directions below for release of Loblolly Pine seedlings during the first growing season.

⁵ See specific directions below for release of 2-to-5 year old Slash Pine and Longleaf Pine.

⁶ See specific directions below for use **ONLY** in Maine for release of Jack Pine, Black Spruce, Red Spruce and White Spruce.

Apply the specified rate of **Alligare Imazapyr 4 SL** per acre when applying broadcast sprays by helicopter or ground spray equipment. Refer to mixing and application instructions for proper spray volumes. A nonionic surfactant may be added but at no more than 1/4% by volume of the finished spray. Use the higher label rates of **Alligare Imazapyr 4 SL** when controlling especially dense stands or hard to control species.

Conifers may exhibit some minor growth inhibition when release treatments are made during periods of active conifer growth. To minimize potential growth inhibition, **DO NOT** make broadcast applications to conifer stands, except loblolly pine, before the end of the second growing season and, then, not until late in the growing season. To reduce the possibility of conifer injury, **DO NOT** apply **Alligare Imazapyr 4 SL** when conifers are under stress from drought, diseases, animal or winter injury, or other stresses that reduce conifer vigor.

For release of loblolly pine seedlings during the first growing season following planting or for one-year-old natural loblolly pine regeneration: For one-year-old loblolly pine release, apply 12-20 fluid oz./A **Alligare Imazapyr 4 SL** after July 15. Use rates below 16 fluid oz./A for growth suppression of hardwoods; however, some hardwood resprouting should be expected.

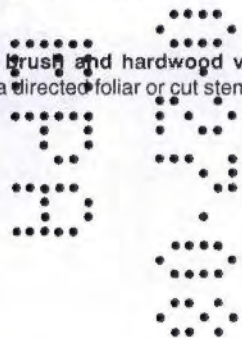
For release of 2-to-5 year old slash pine and longleaf pine from undesirable woody plants: Broadcast release treatments over the top of pines after August 15 and only in stands 2 to 5 years old. **DO NOT** add surfactant to the spray solution and use the lower labeled rates on areas with sandy soils.

For release of slash pine over 5 years old by aerial application: Apply **ONLY** after September 15 after height growth has stopped and buds have set. Use 12 to 14 fluid oz **Alligare Imazapyr 4 SL** per acre but only 12 fluid oz on areas with sandy soils. **DO NOT** add surfactant to the spray solution. **DO NOT** over apply by overlapping the spray pattern or dressing up around the edges of a tract. Since this treatment may cause some inhibition in height growth or terminal dieback, it should not be used if such affects are unacceptable.

For use ONLY in Maine for release of Jack Pine, Black Spruce, Red Spruce and White Spruce: For hardwood growth suppression, apply **Alligare Imazapyr 4 SL** at rates less than 6 fluid oz. per acre when tank mixed with glyphosate. Use a nonionic surfactant at rates greater than 0.25% v/v. The use of **Alligare Imazapyr 4 SL** with more than 0.25% v/v nonionic surfactant can result in conifer growth inhibition or mortality, and should not be used if this type of conifer injury is unacceptable.

The use of **Alligare Imazapyr 4 SL** rates below 6 oz./A are intended for hardwood brush growth suppression and hardwood brush resprouting should be expected.

For spot treatment of undesirable brush and hardwood vegetation: Apply **Alligare Imazapyr 4 SL** as a directed foliar or cut stem appli-



cation in conifer stands of all ages for the conifer species listed above. Mix and apply as described above for directed foliar or cut stem applications. **DO NOT** exceed the maximum labeled rates listed above. Cut stem applications may be used for spot treatment of undesirable hardwoods in Ponderosa Pine stands using 12 oz. or less of product per acre.

Avoid direct spray contact to desired plant species as injury may occur. Injury may occur to non-target or desirable hardwoods or conifers if they extend from the same root system or their root systems are grafted to those of the treated tree or if their roots extend into the treated zone.

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: **DO NOT** store below 10°F.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying.

(Nonrefillable ≤ 5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(Nonrefillable > 5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

IMPORTANT: Read the entire **DIRECTIONS FOR USE** and the **CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY** before using this product. If terms are not acceptable, return the unopened product container at once.

CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

To the extent consistent with applicable law, upon purchase or use of this product, purchaser and user agree to the following terms:

Warranty: Alligare, LLC (the Company) warrants that this product conforms to the chemical description on the label in all material respects and is reasonably fit for the purpose referred to in the directions for use, subject to the exceptions noted below, which are beyond the

Company's control. To the extent consistent with applicable law, the Company makes no other representation or warranty, express or implied, concerning the product, including no implied warranty of merchantability or fitness for a particular purpose. No such warranty shall be implied by law, and no agent or representative is authorized to make any such warranty on the Company's behalf.

Terms of Sale: The Company's directions for use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, and the manner of use or application (including failure to adhere to label directions), all of which are beyond the Company's control. To the extent consistent with applicable law, all such risks are assumed by the user.

Limitation of Liability: To the extent consistent with applicable law, the exclusive remedy against the Company for any cause of action relating to the handling or use of this product is a claim for damages, and in no event shall damages or any other recovery of any kind exceed the price of the product which caused the alleged loss, damage, injury or other claim. To the extent consistent with applicable law, under no circumstances shall the Company be liable for any special, indirect, incidental or consequential damages of any kind, including loss of profits or income, and any such claims are hereby waived. Some states do not allow the exclusion or limitation of incidental or consequential damages.

The Company and the seller offer this product, and the purchaser and user accept this product, subject to the foregoing warranty, terms of sale and limitation of liability, which may be varied or modified only by an agreement in writing signed on behalf of the Company by an authorized representative.

Microfoil is a trademark of Rhone Poulenc Ag. Company.

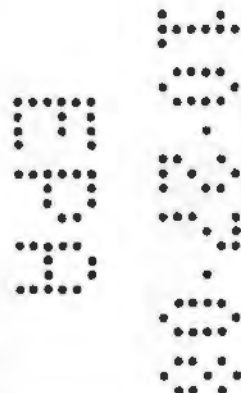
Thru-Valve is a trademark of Waldrum Specialties.

Accord is a registered trademark of Monsanto Company

Oust is a registered trademark of E.I. DuPont de Nemours and Company.

Garlon is a trademark of Dow AgroSciences Company.

EPA 20081020





ALLIGARE

IMAZAPYR 4 SL

Alligare Imazapyr 4 SL controls undesirable vegetation in forestry use sites managed for timber production including forest roads, non-irrigation ditchbanks. It may also be applied in areas defined as puddles, potholes, berms of ditches, drainage ditches, intermittent drainage, intermittently flooded low lying sites, seasonally dry flood plains, and transitional areas between upland and lowland sites, except in the states of California and New York. **Alligare Imazapyr 4 SL** can be used to treat marshes, swamps and bogs after water has receded, as well as seasonally dry flood deltas, except in the states of California and New York.

ACTIVE INGREDIENT:

Isopropylamine salt of Imazapyr (2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid)* 52.6%

OTHER INGREDIENTS 47.4%

TOTAL 100.0%

*Equivalent to 42.9% 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid or 4 pounds acid per gallon.

EPA Reg. No. 81927-24

Letter(s) in lot number correspond(s) to superscript in EPA Est. No.

ALB

EPA Est. No. 42750-MO-001

BT

EPA Est. No. 37429-GA-001

CSI

EPA Est. No. 53883-TX-002

A

EPA Est. No. 11603-ISR-001

KEEP OUT OF REACH OF CHILDREN

CAUTION / PRECAUCION

PRECAUCION AL USUARIO: Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION! Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing and wash before reuse.

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: DO NOT store below 10°F.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

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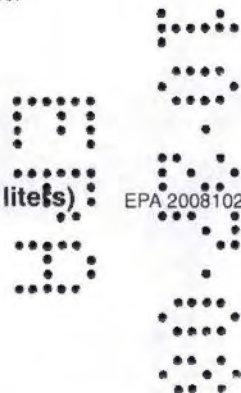
(Nonrefillable > 5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

See label booklet for First Aid, additional Precautionary Statements and Directions for Use.

Manufactured for: Alligare, LLC
13 N. 8th Street • Opelika, AL 36801

Net Contents: ☐ 2.5 Gallons (9.46 liters) ☐ 30 Gallons (113.5 liters)

EPA 20081020





PROTECTING:
RIGHT-OF-WAY/
UTILITIES
RAILROADS
RANGE & PASTURE AND
FORESTRY
AQUATIC
INDUSTRIES

June 3, 2008

To Whom It May Concern:

RE: Letter of Authorization

Dear Sir or Madam:

Please let this letter serve to confirm that Pyxis Regulatory Consulting, Inc. is authorized to act as agent for Alligare, LLC (EPA Company Number 81927), before the U.S. Environmental Protection Agency and state governmental agencies in all matters regarding our pesticide registrations pursuant to the Federal Insecticide, Fungicide and Rodenticide Act ("FIFRA"), 7 U.S.C. § 136 et seq. and state law.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Jay Golz
Vice-President & COO

cc: Pyxis Regulatory Consulting, Inc.

